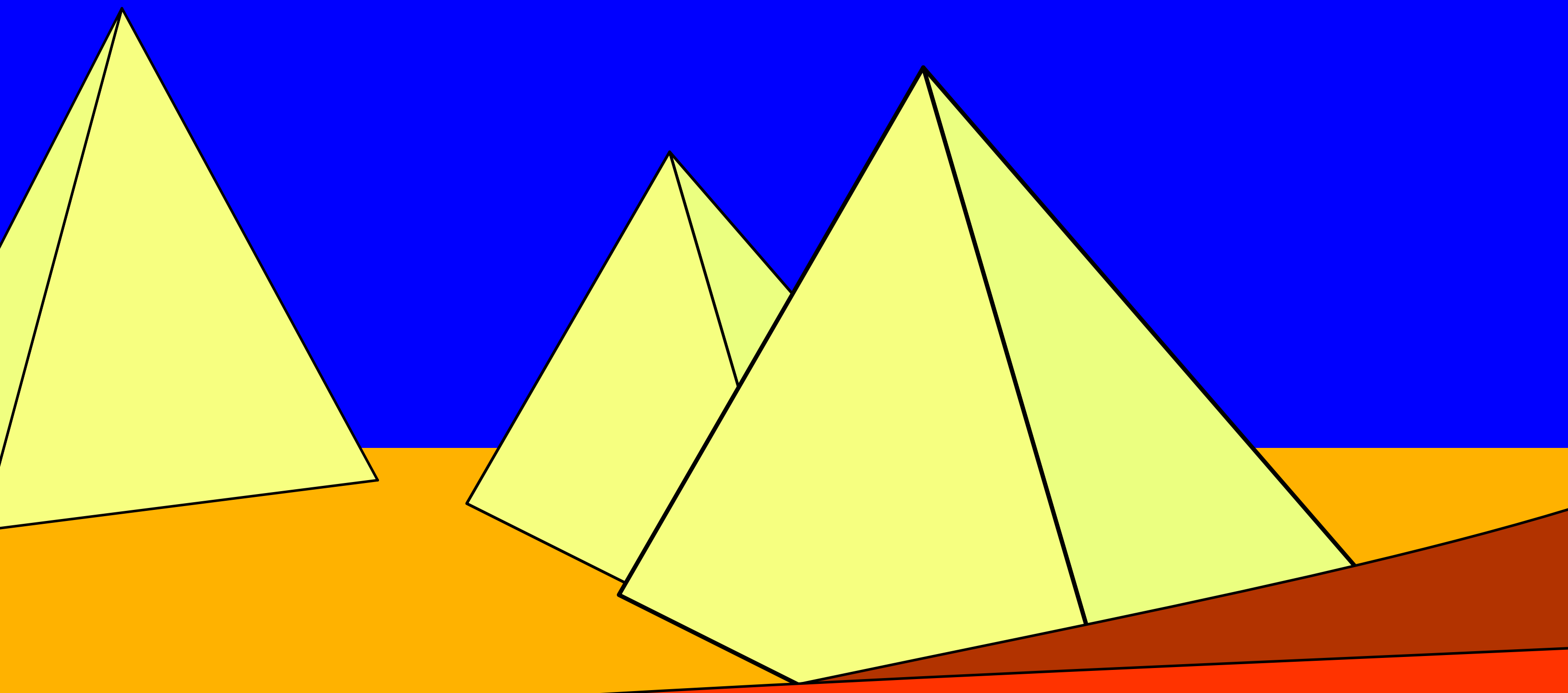
Euclid XII.7

Volume <pryramid> = 1/3 * Base * Height



Yi Zhang

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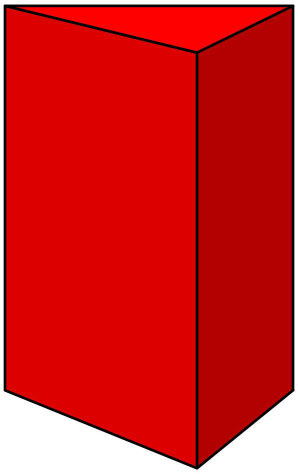
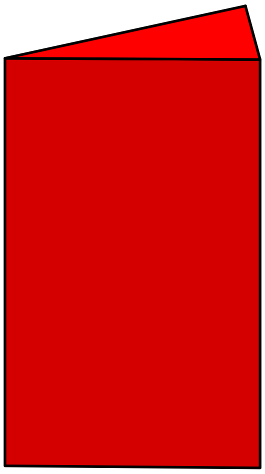
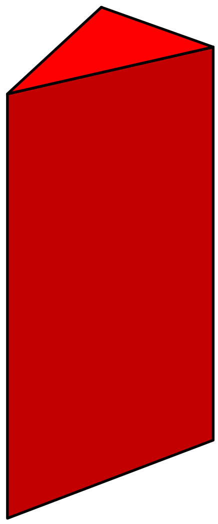
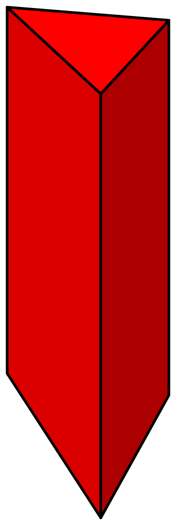
Euclid XII.7:

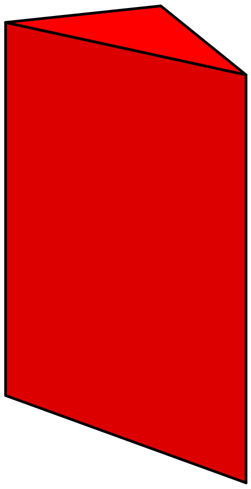
The volume of a triangular pyramid is one third of the product of its base and its height

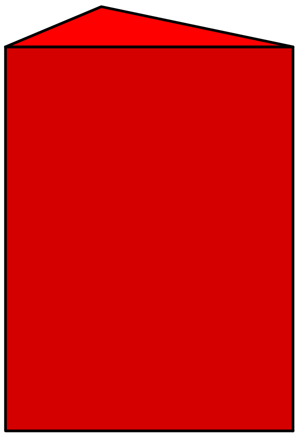


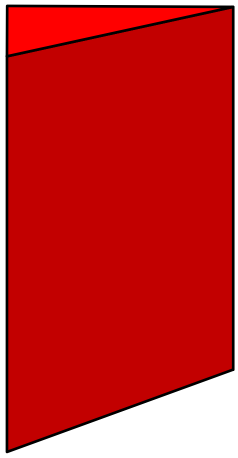


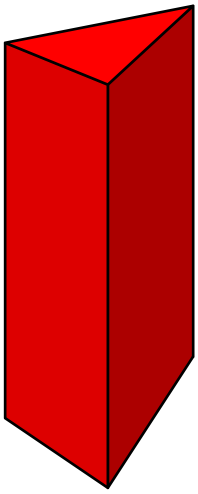


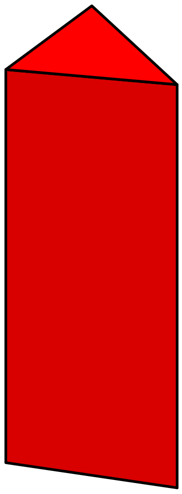


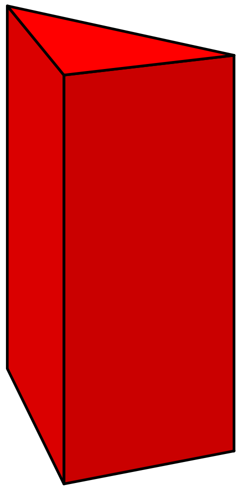


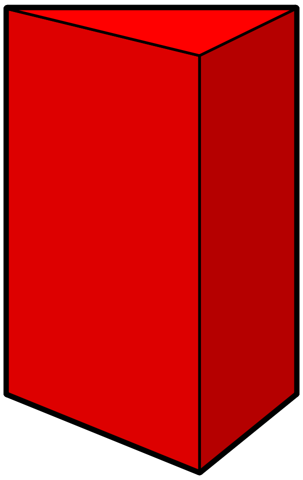


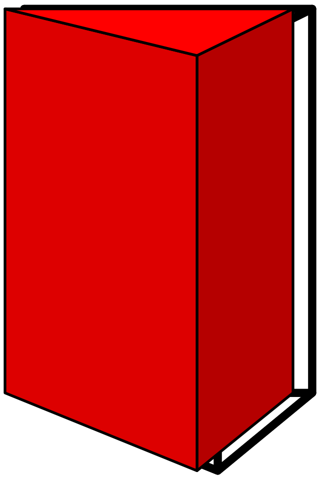


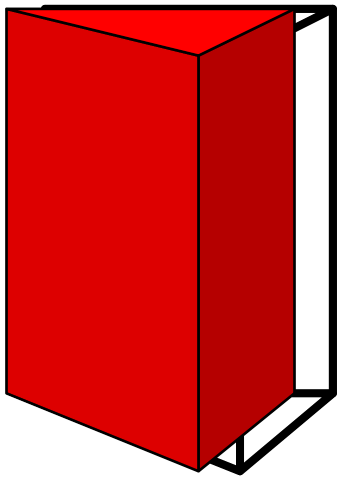


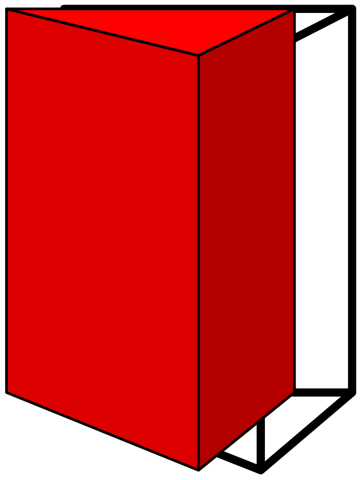


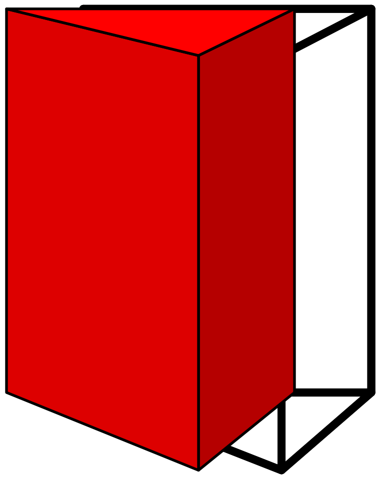


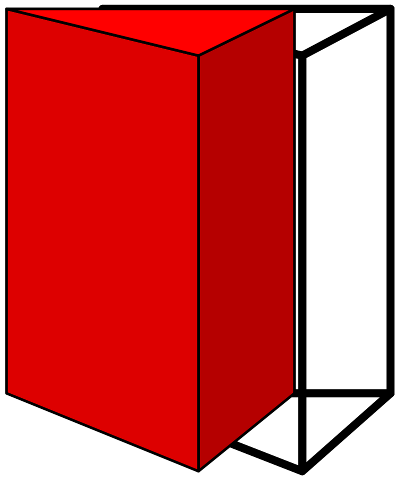


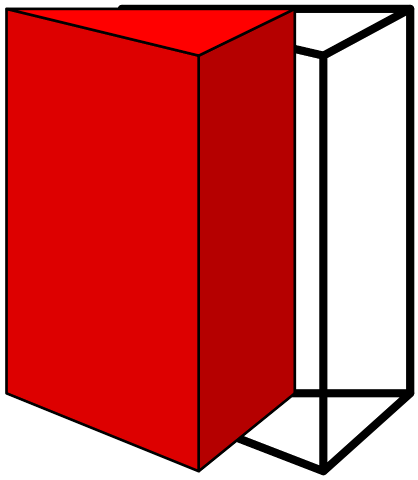


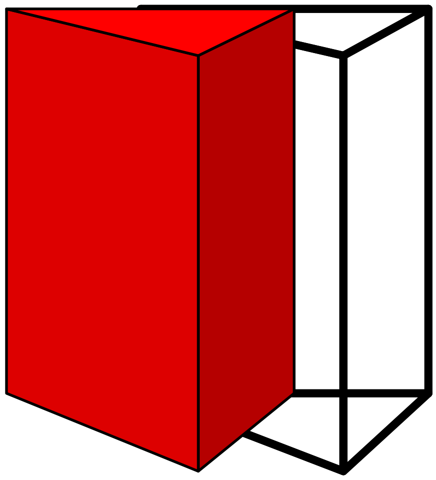


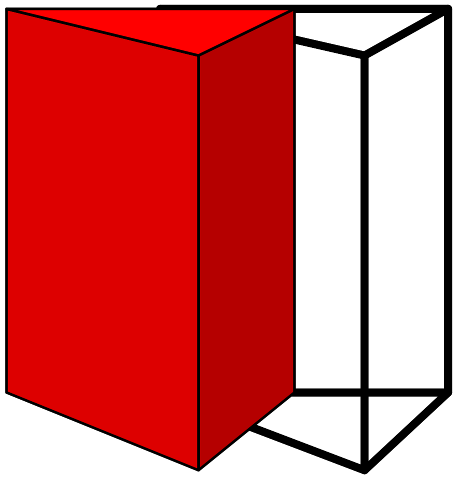


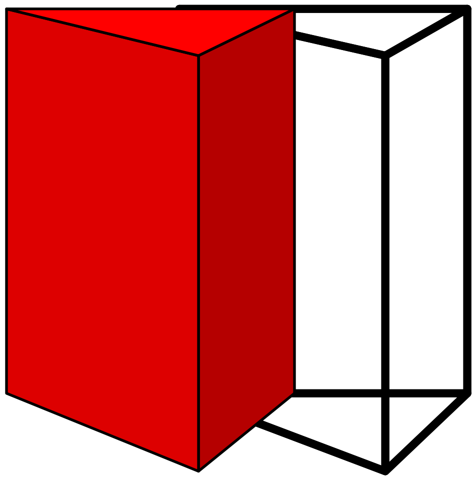


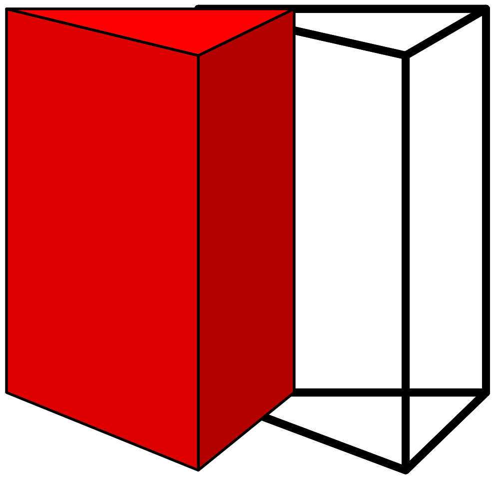


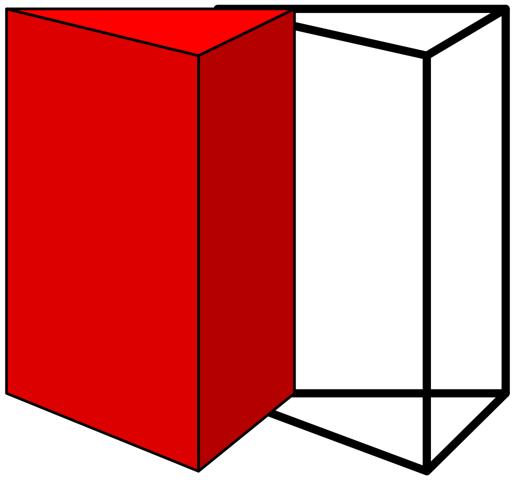


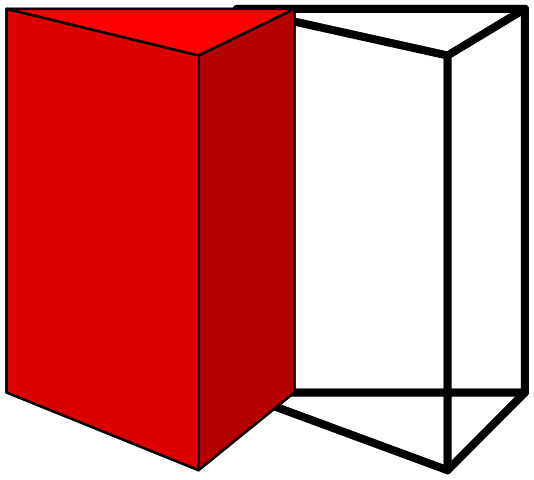


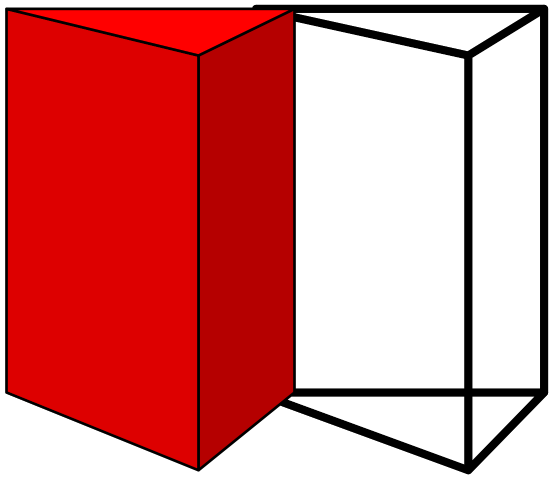


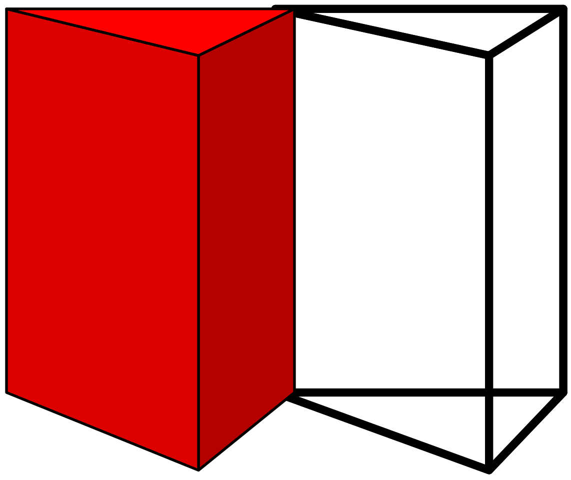


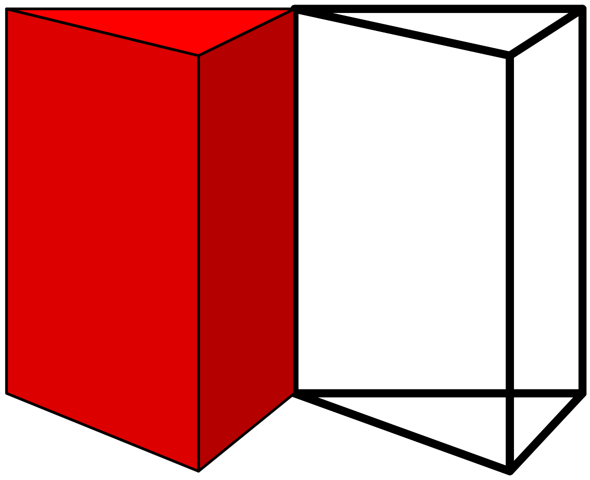


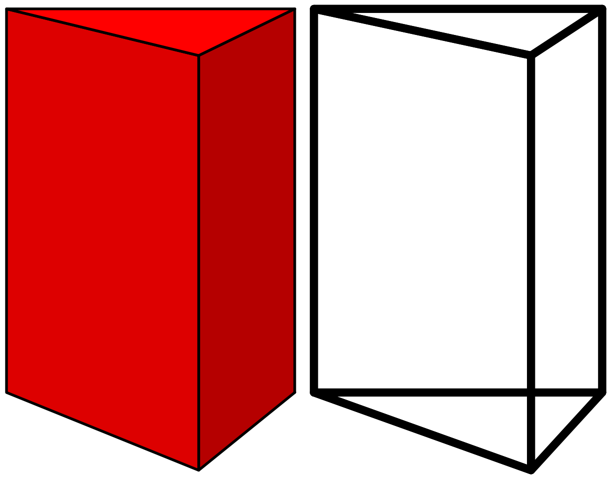


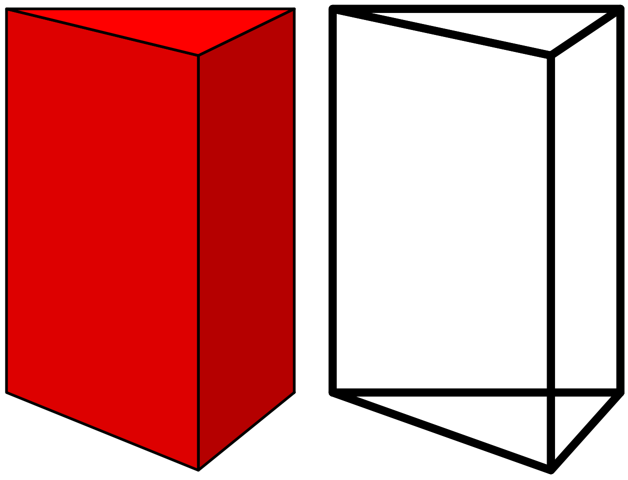


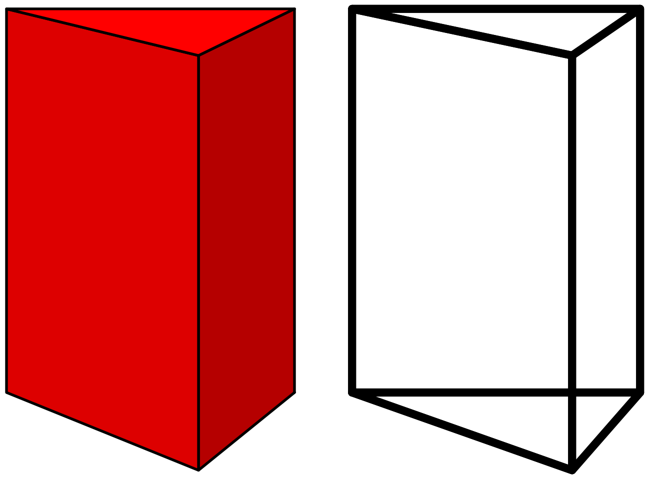


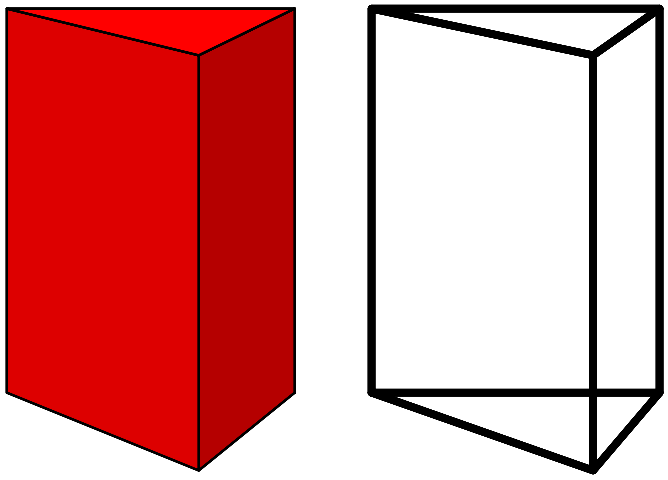


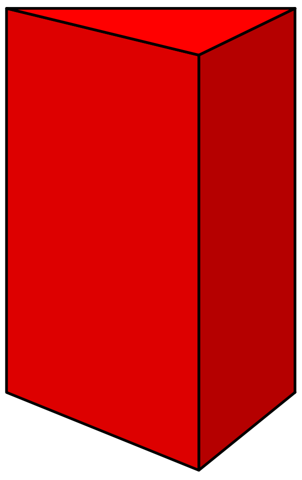


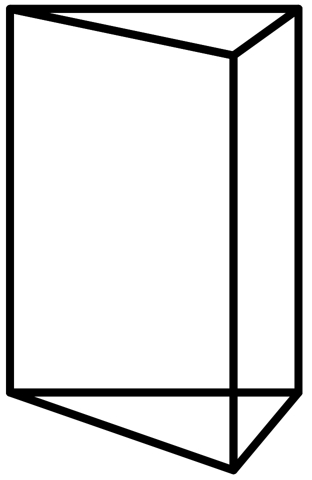


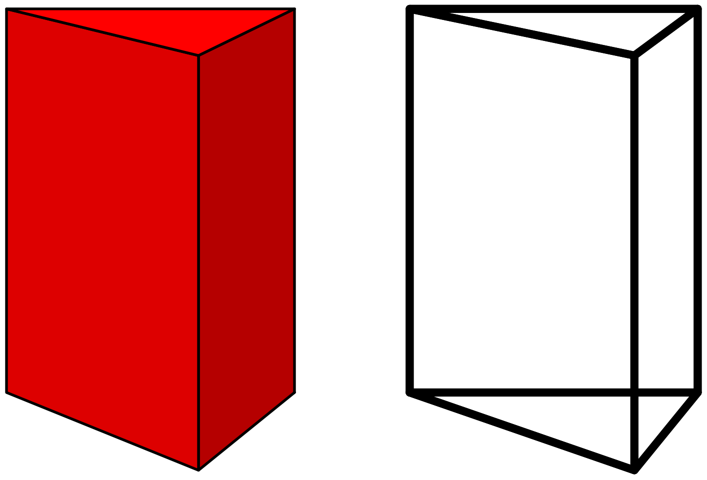


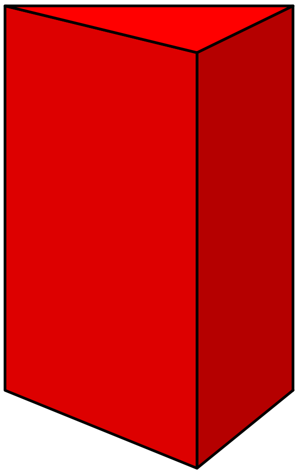


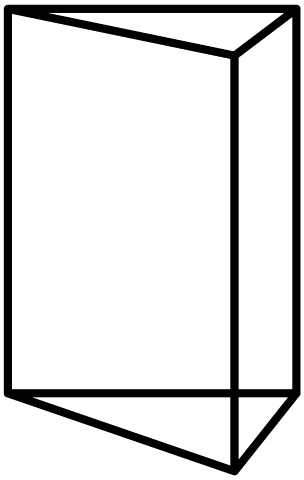


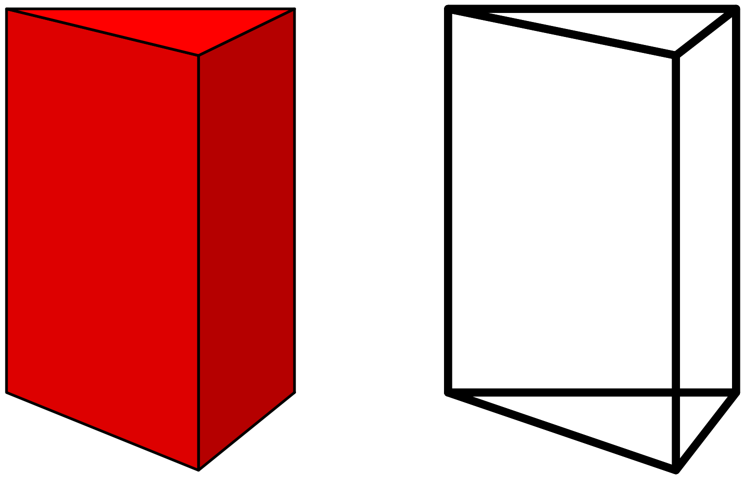


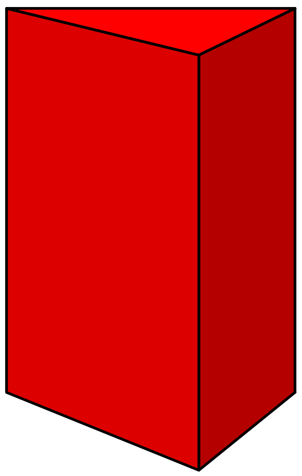
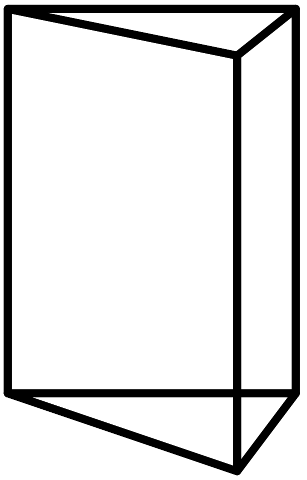


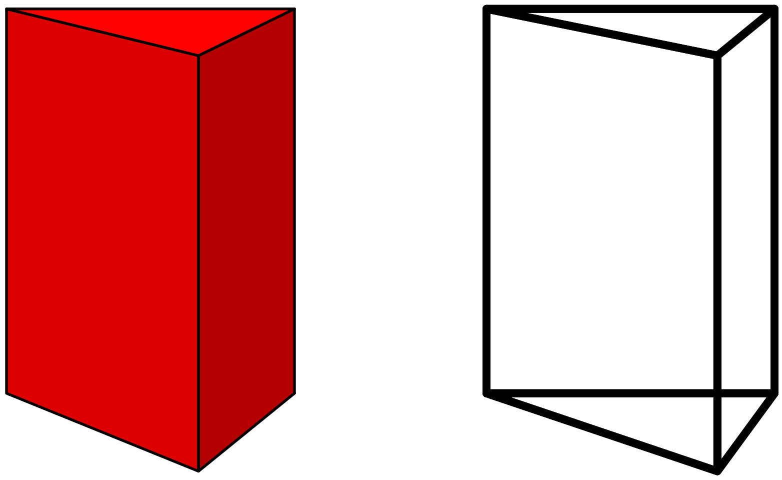


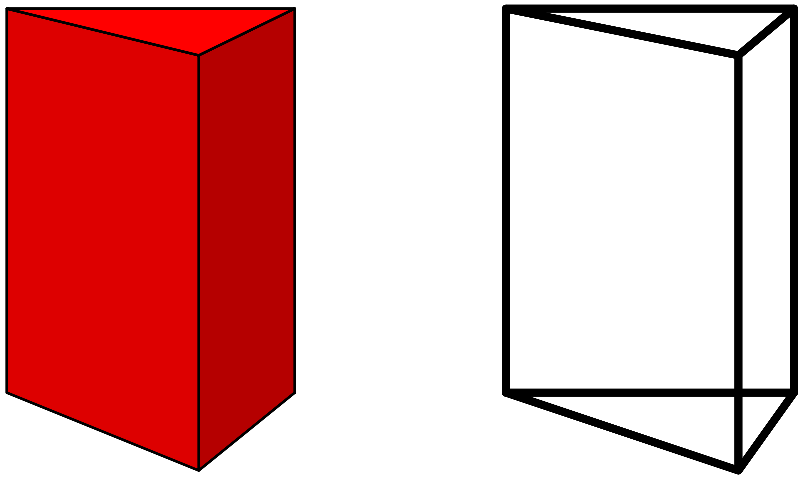


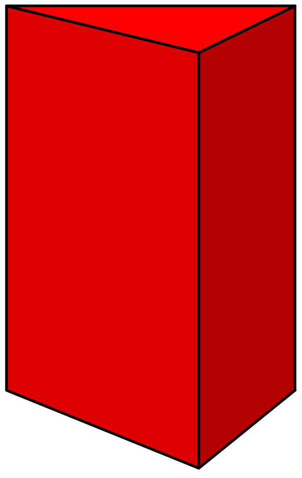
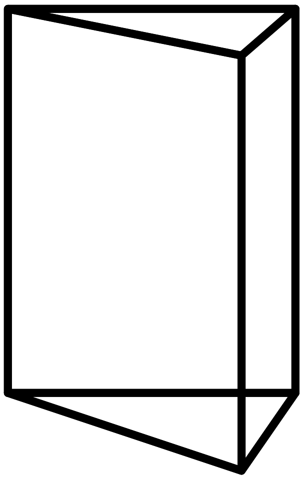


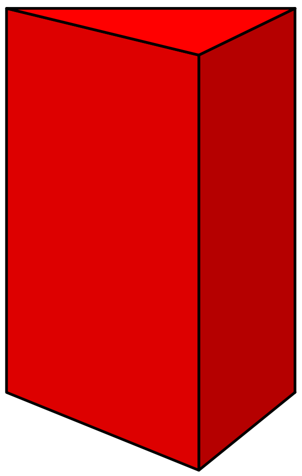


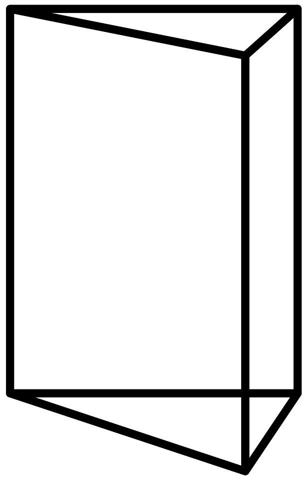



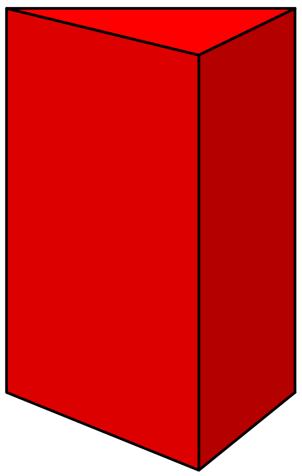


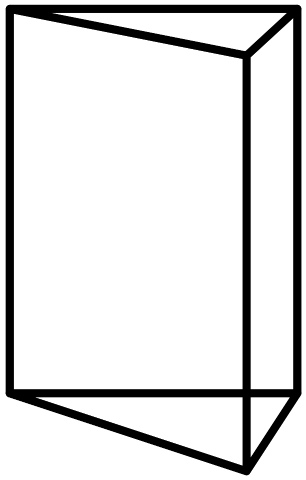


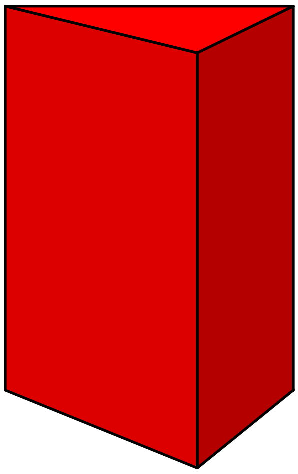



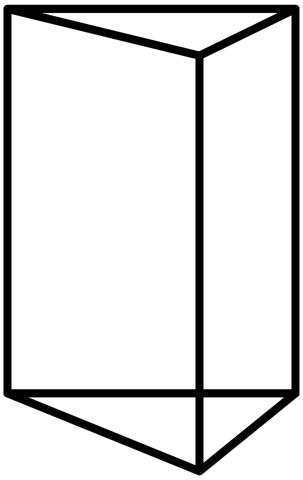


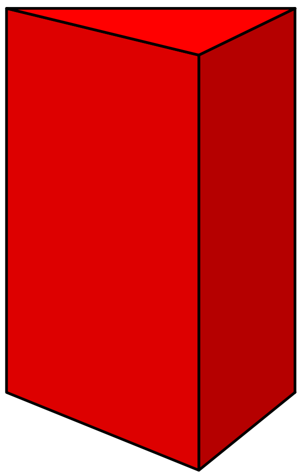


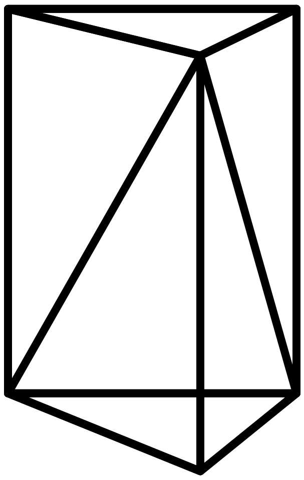


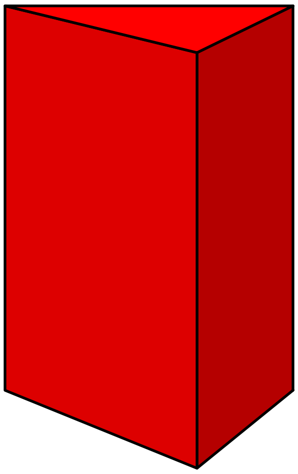


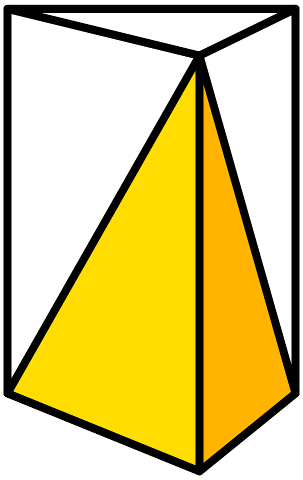


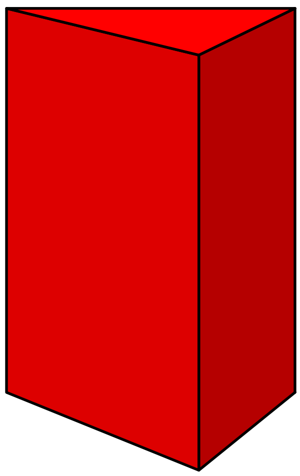


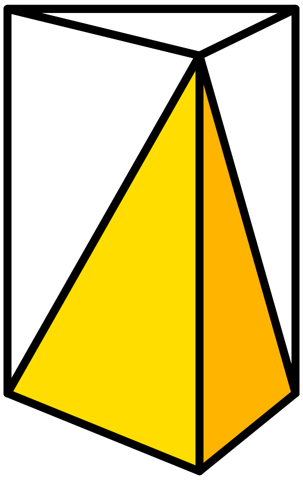


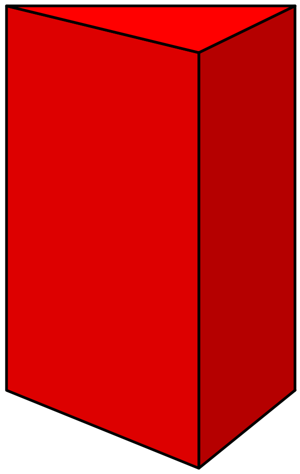


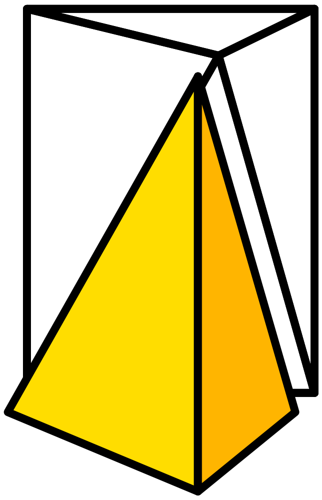


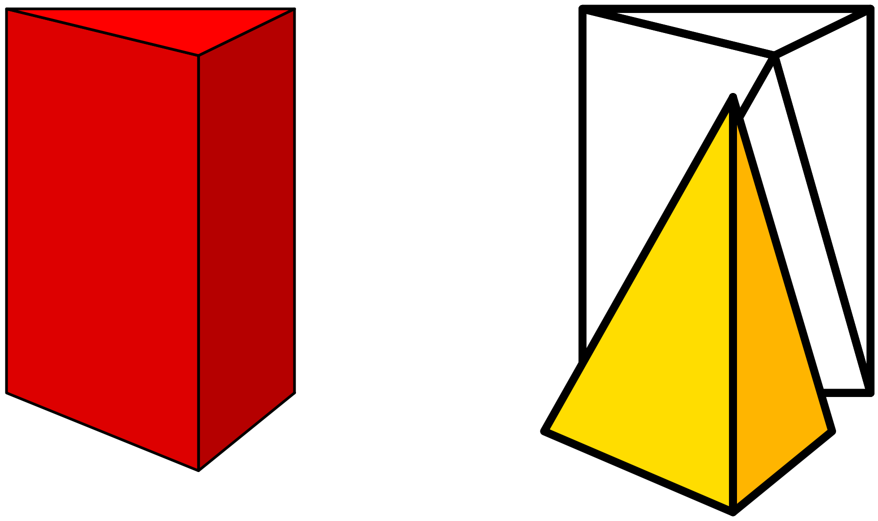


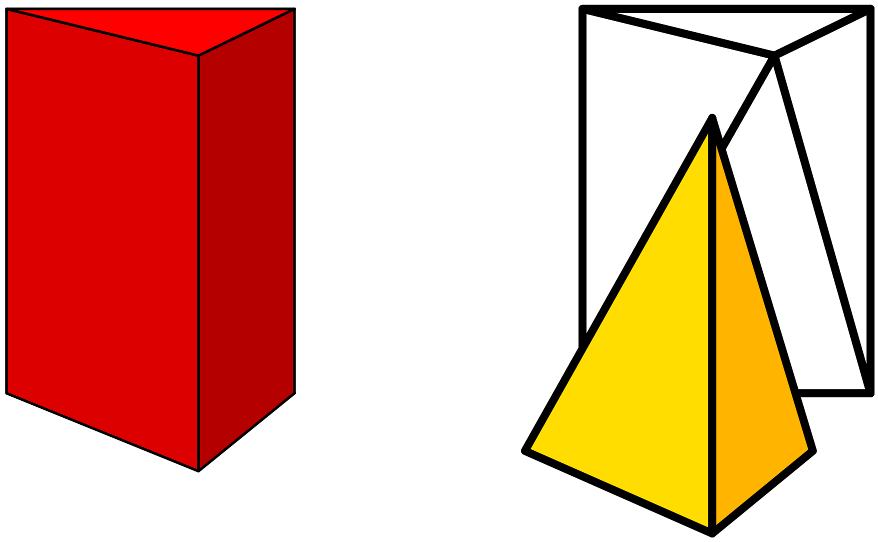


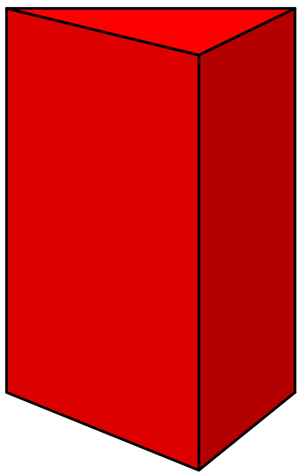


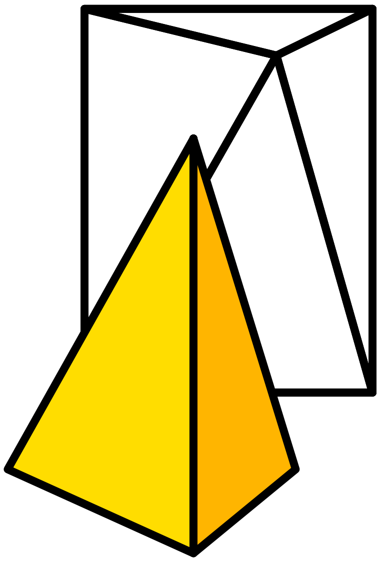


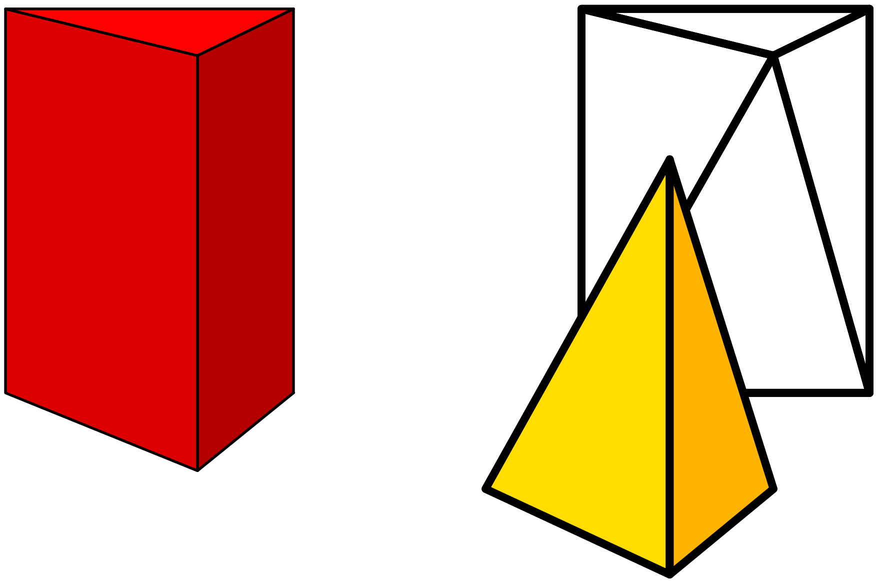


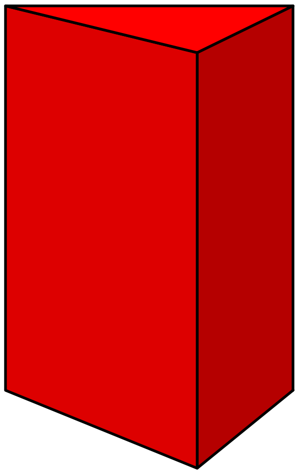


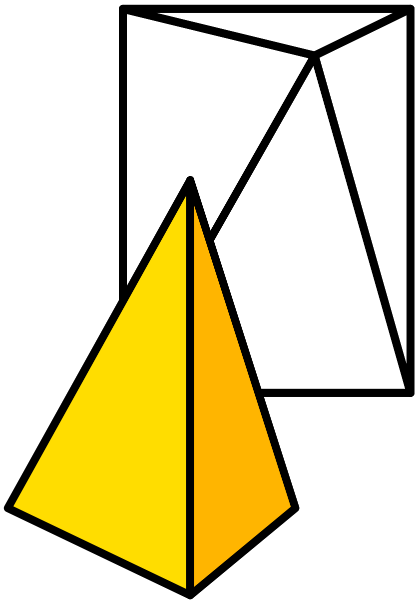


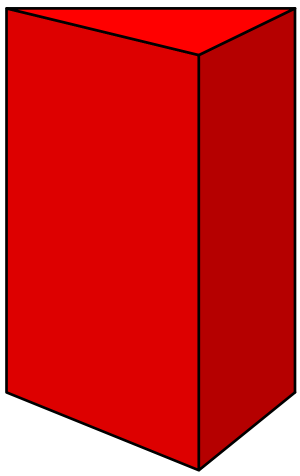


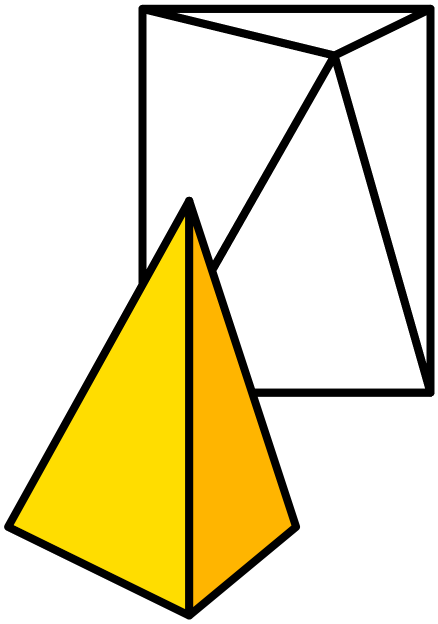


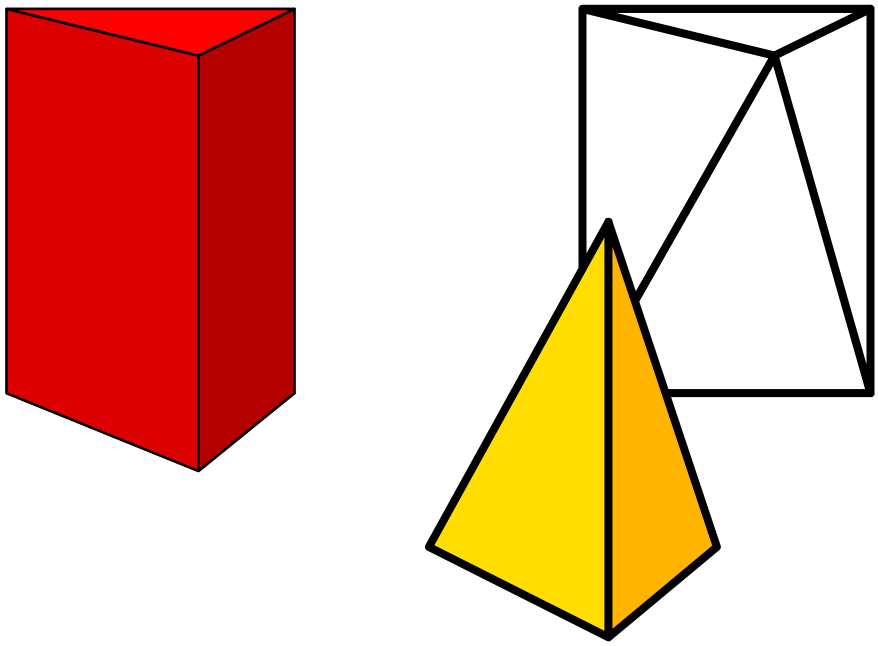


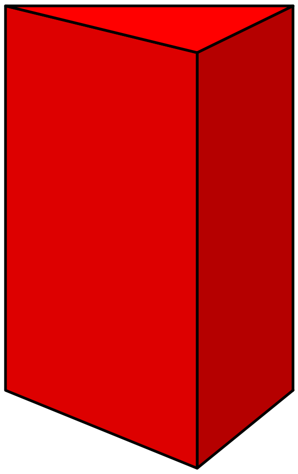


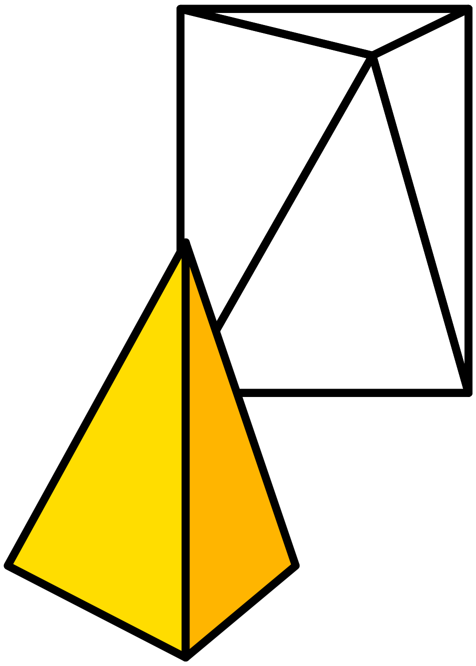


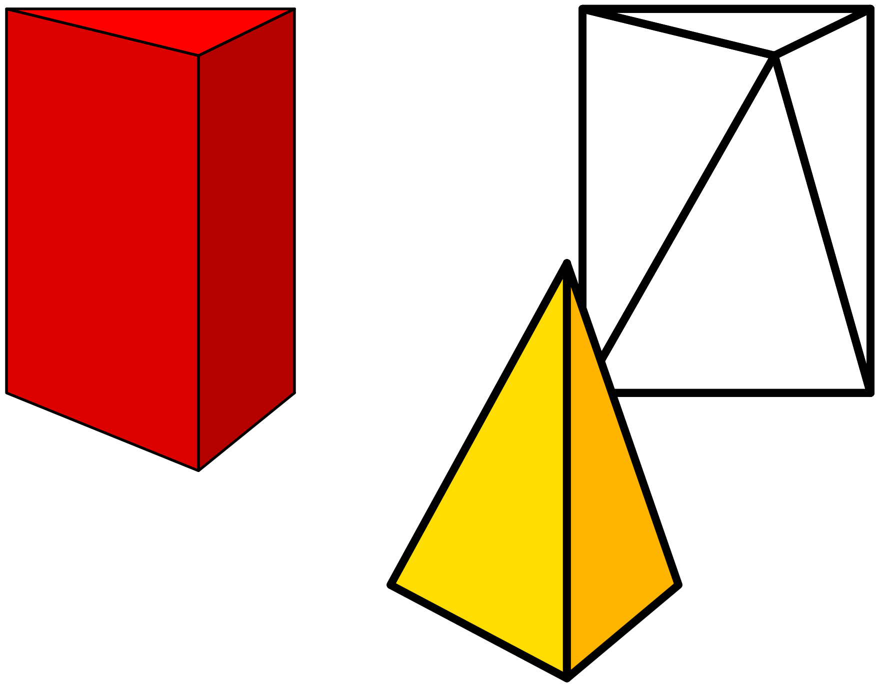


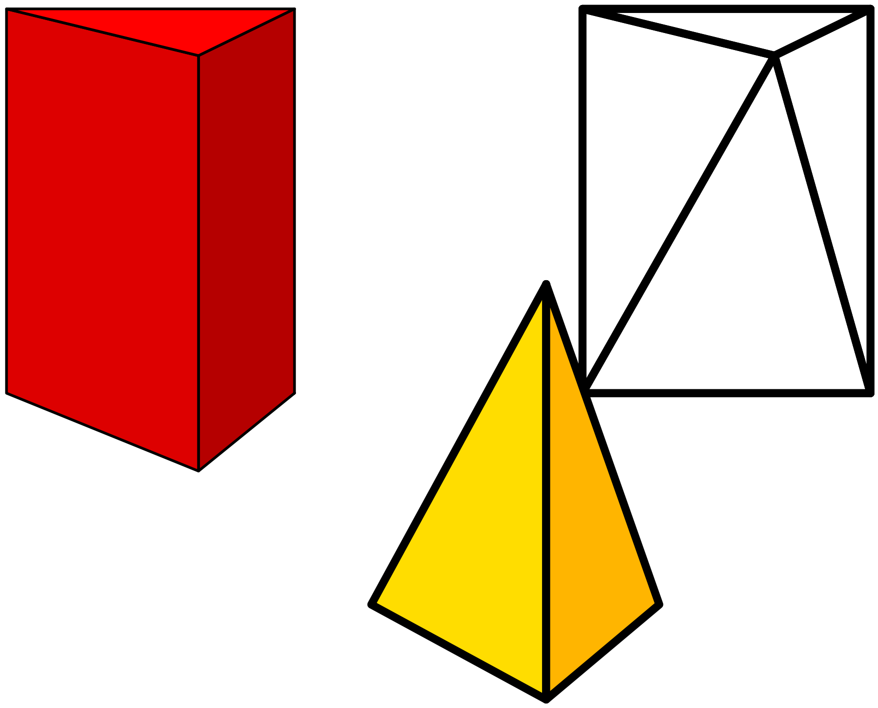


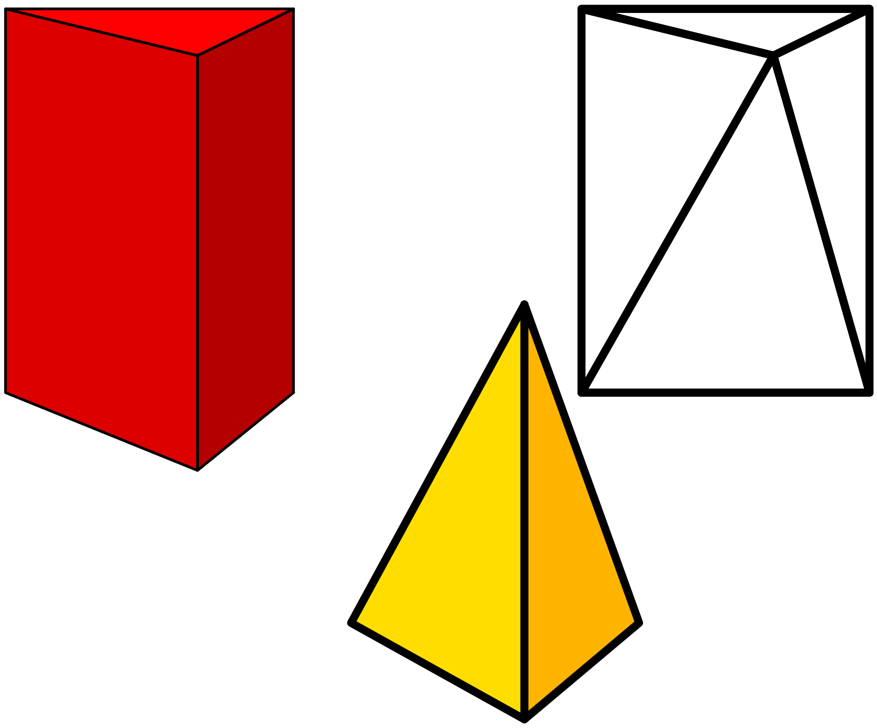


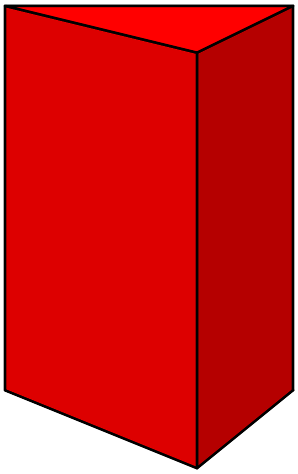


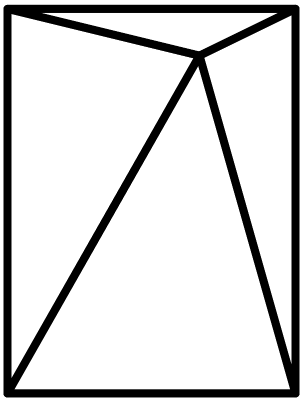


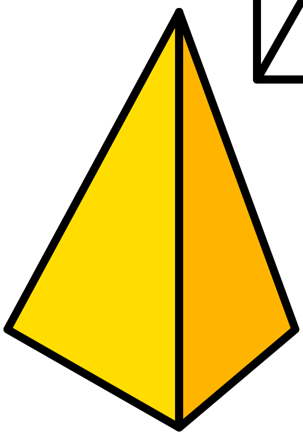


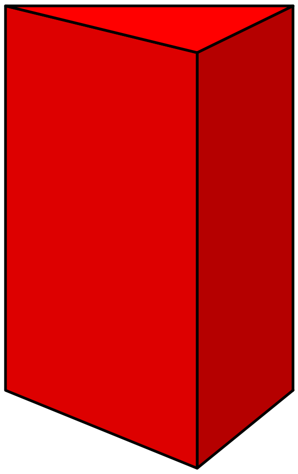


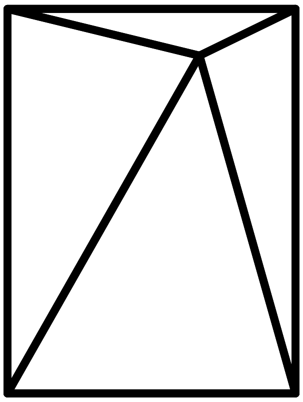


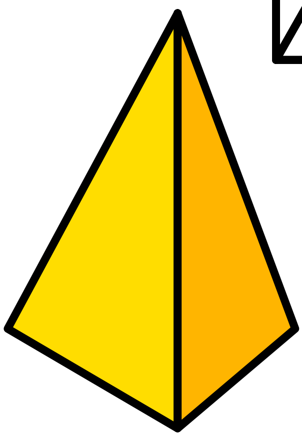


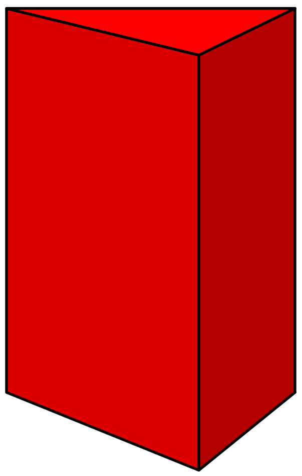
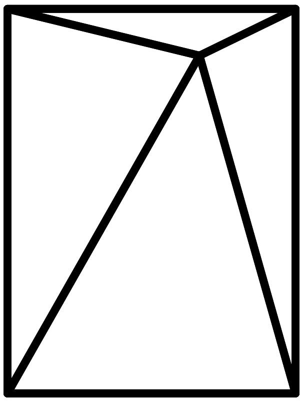
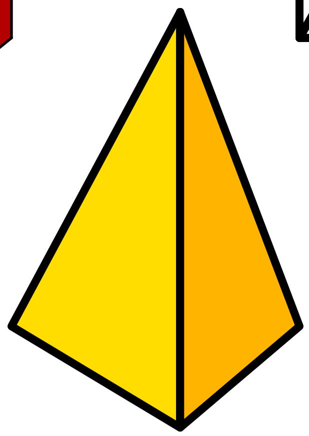


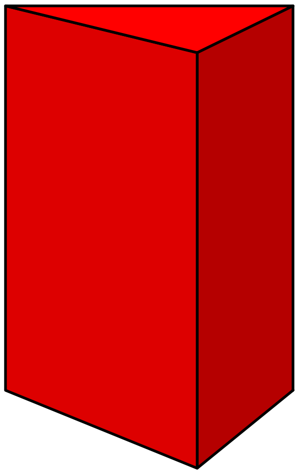


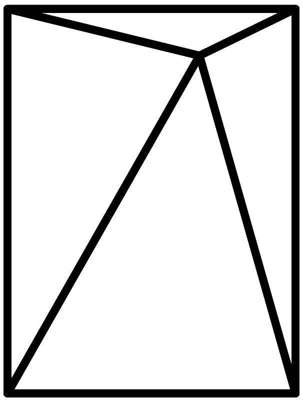


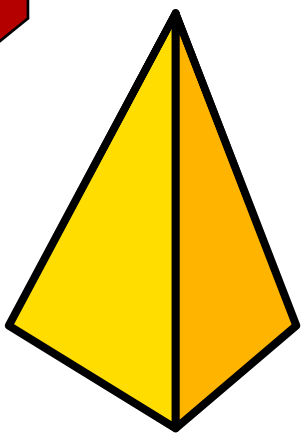


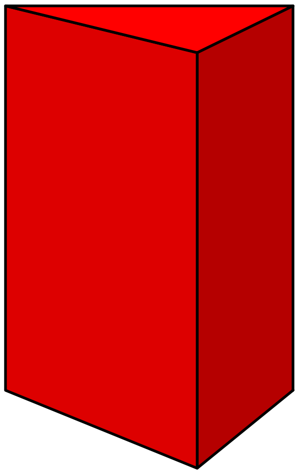


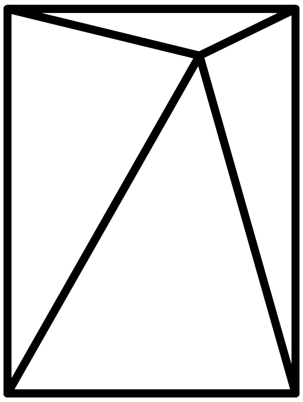




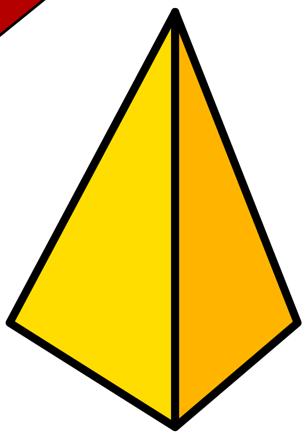


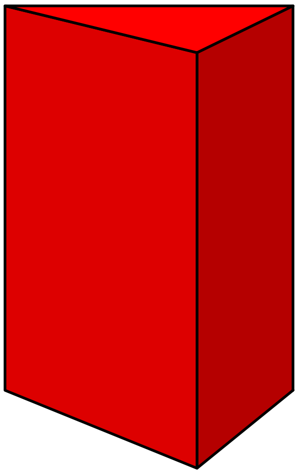


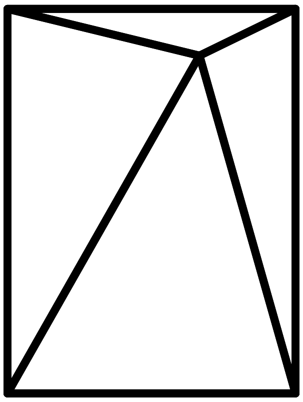


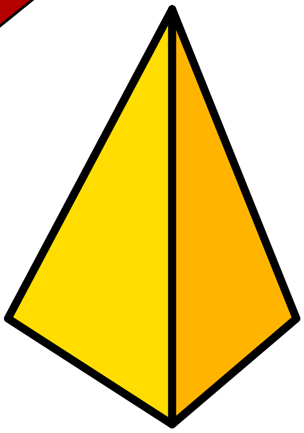


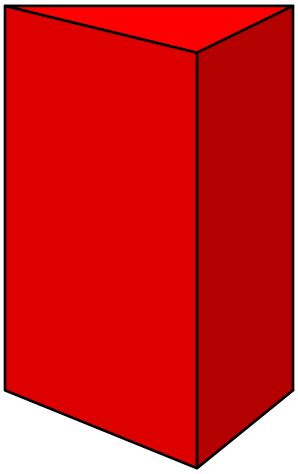


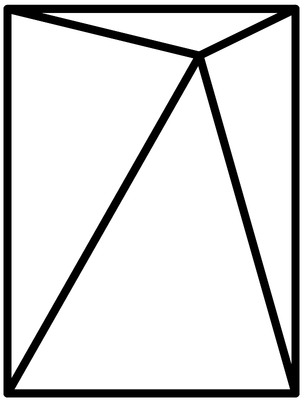


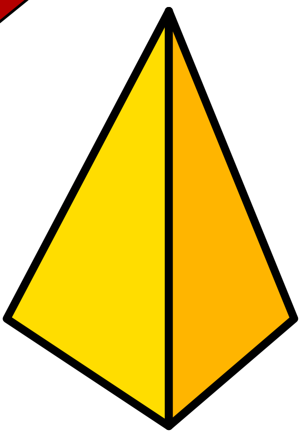


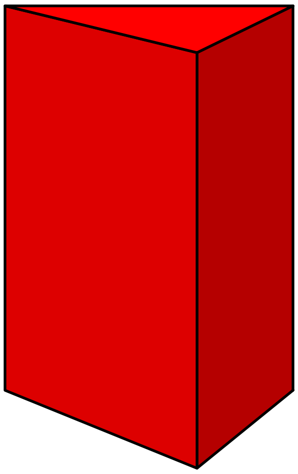
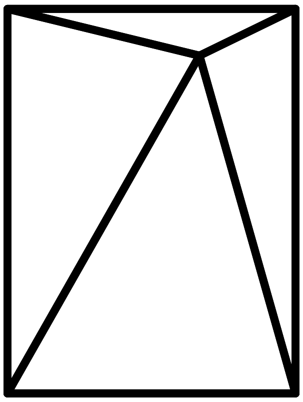
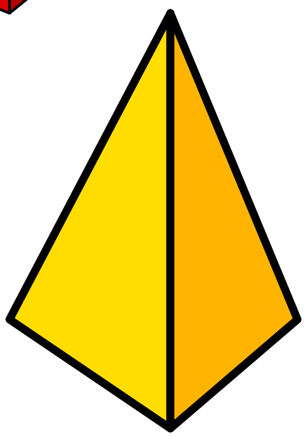


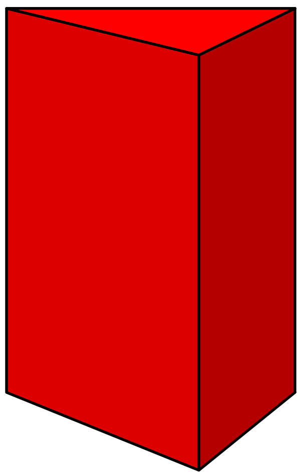
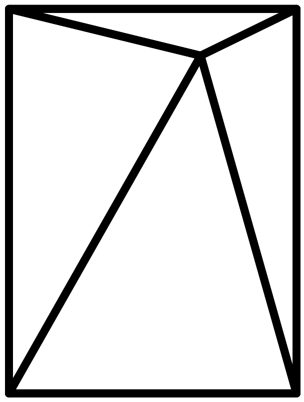
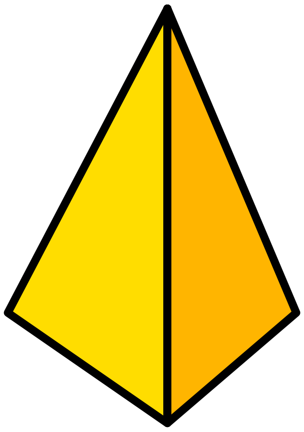


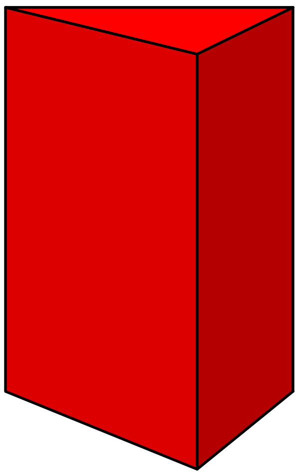


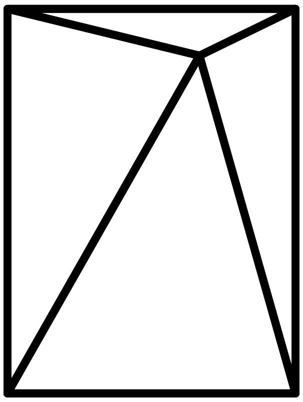


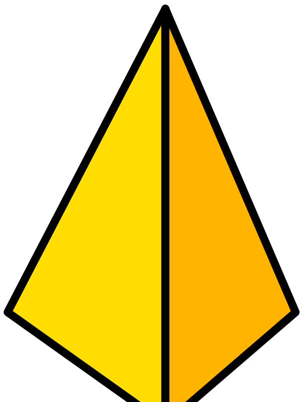


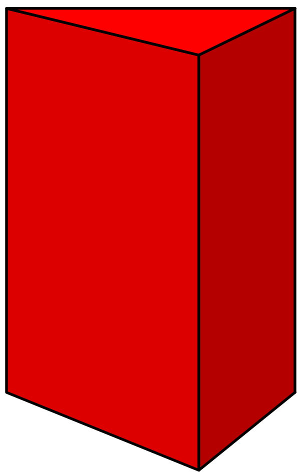




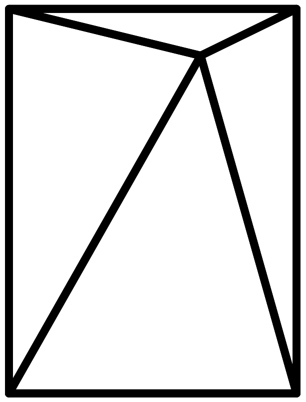




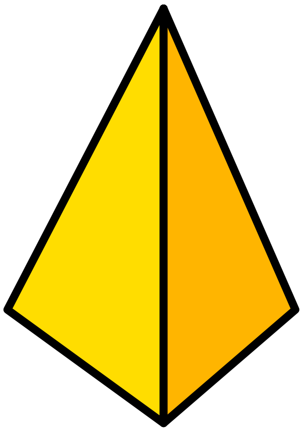


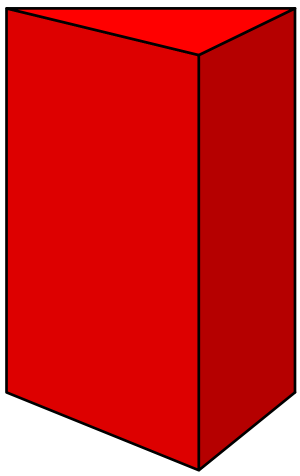
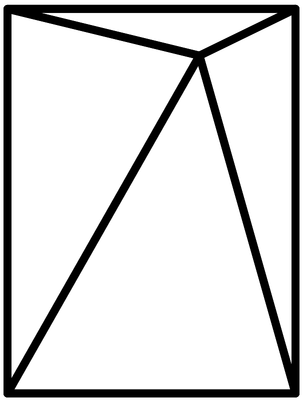
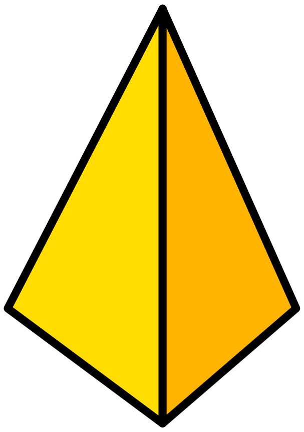


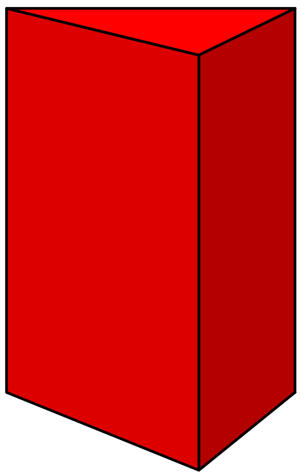


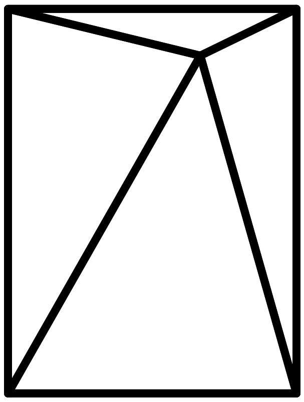


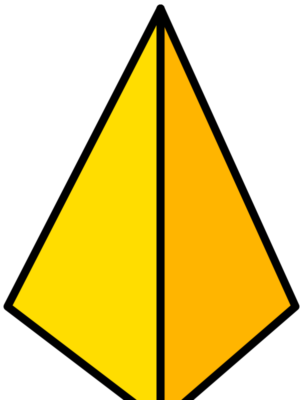


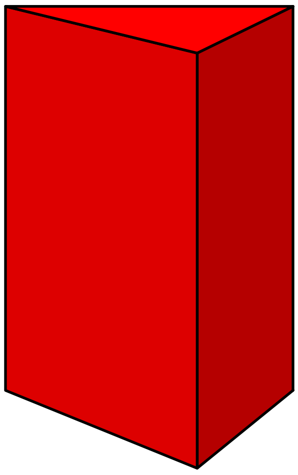


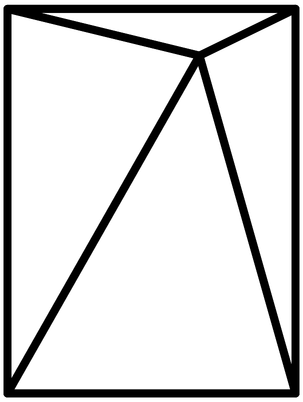




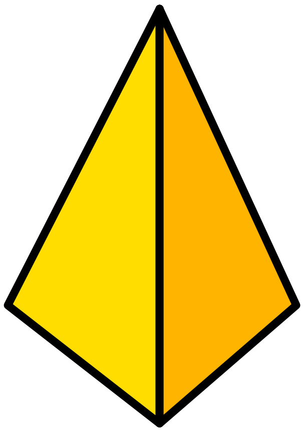


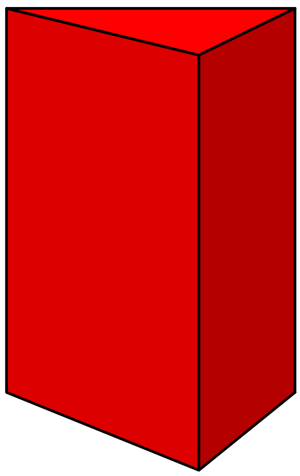


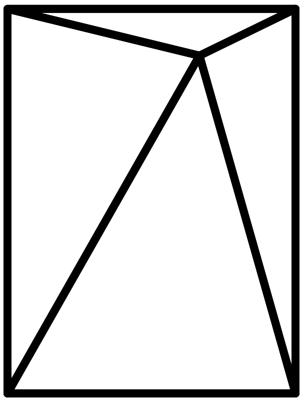


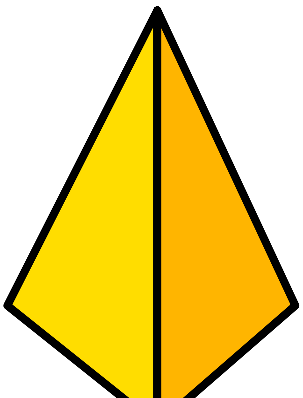


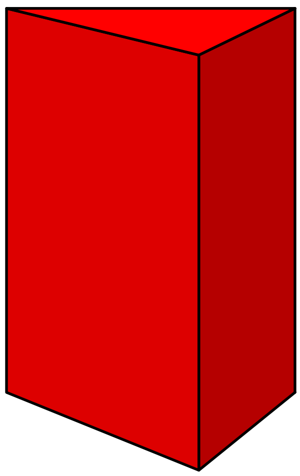


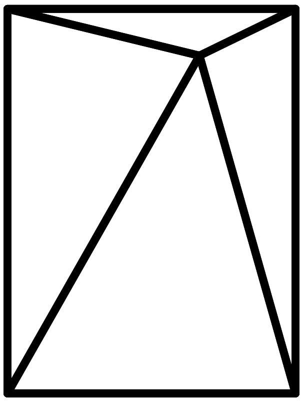


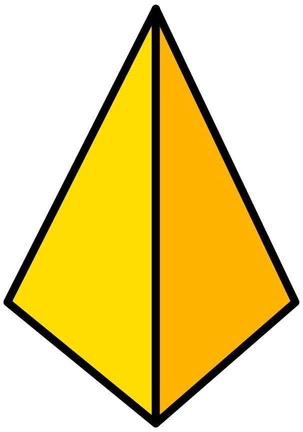


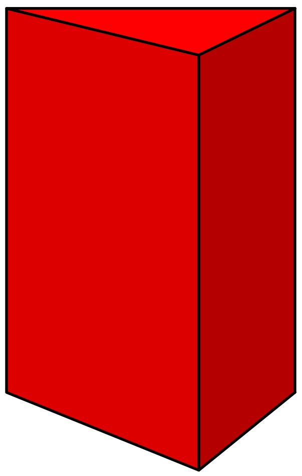
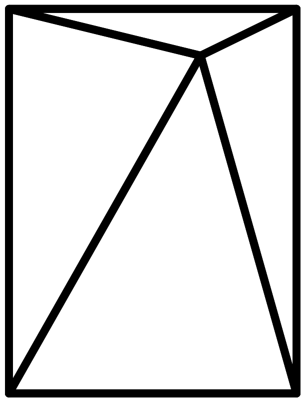
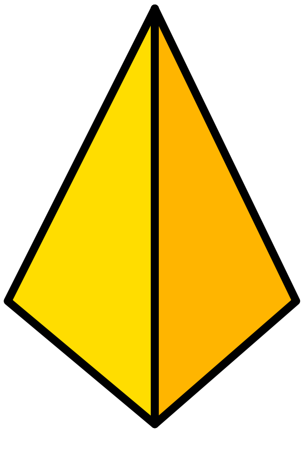


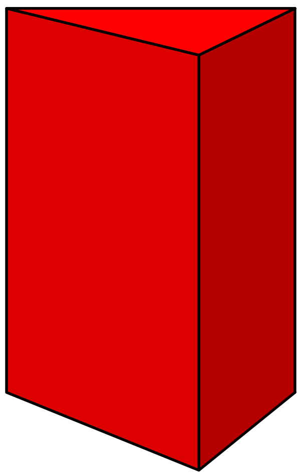


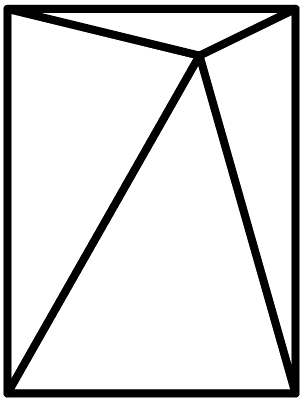


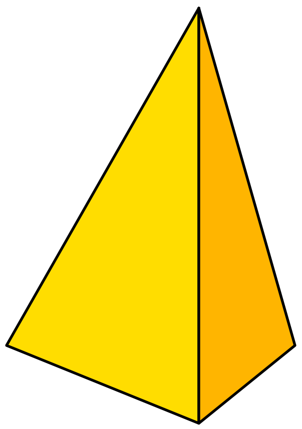


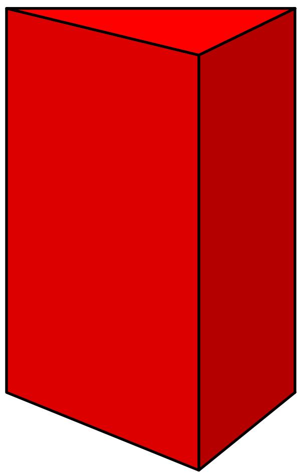


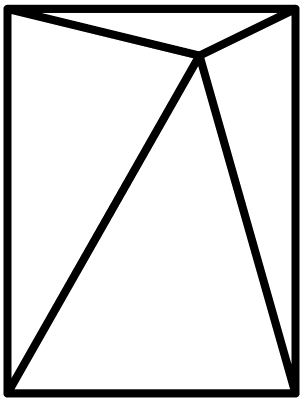




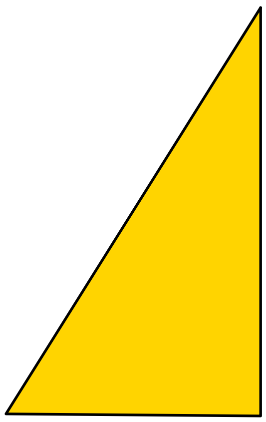


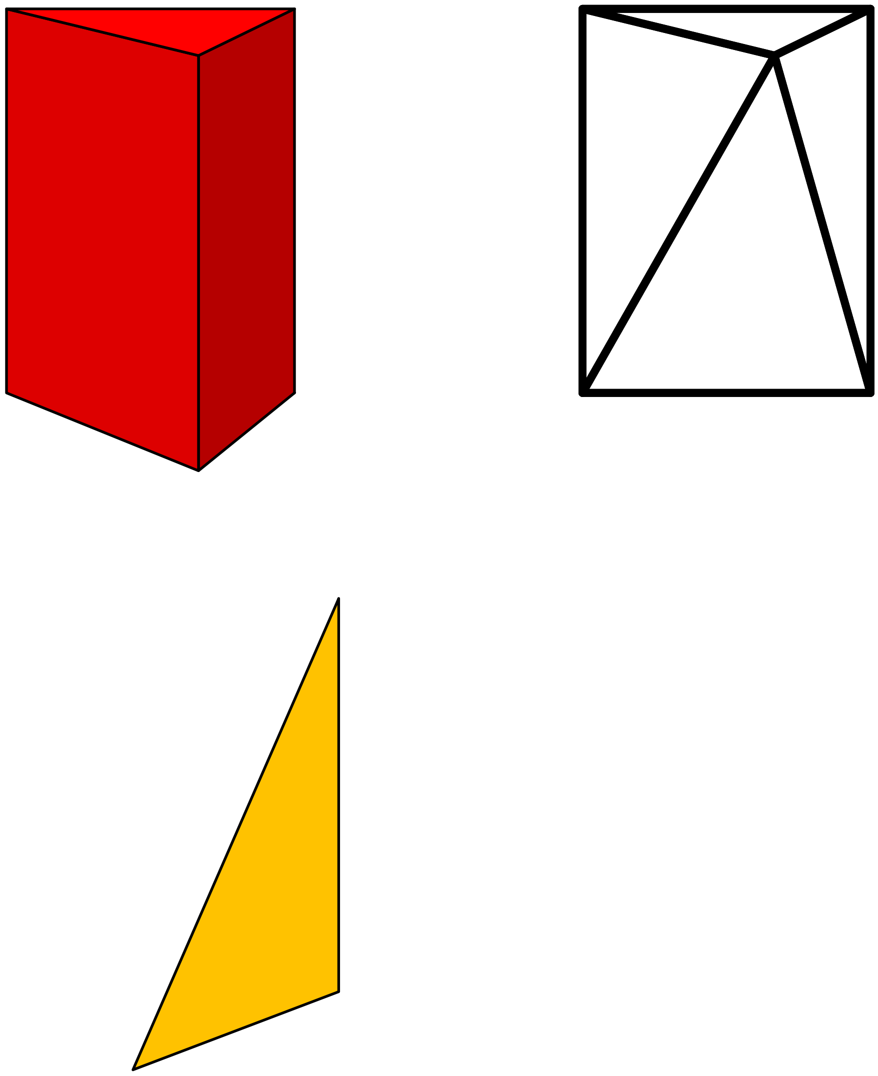


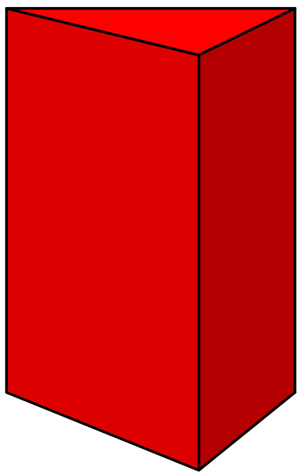


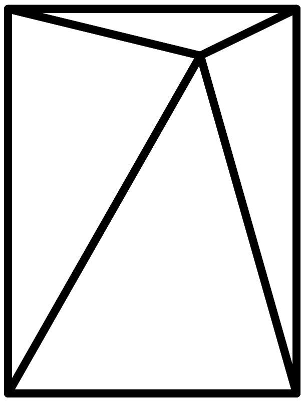


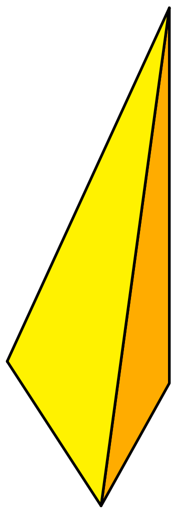


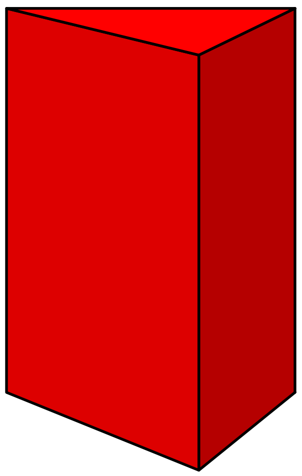


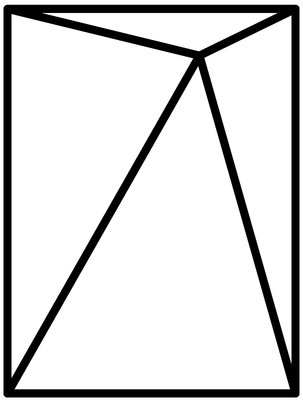


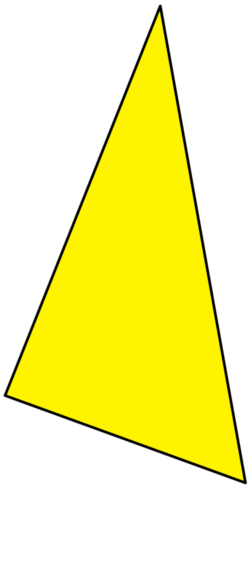


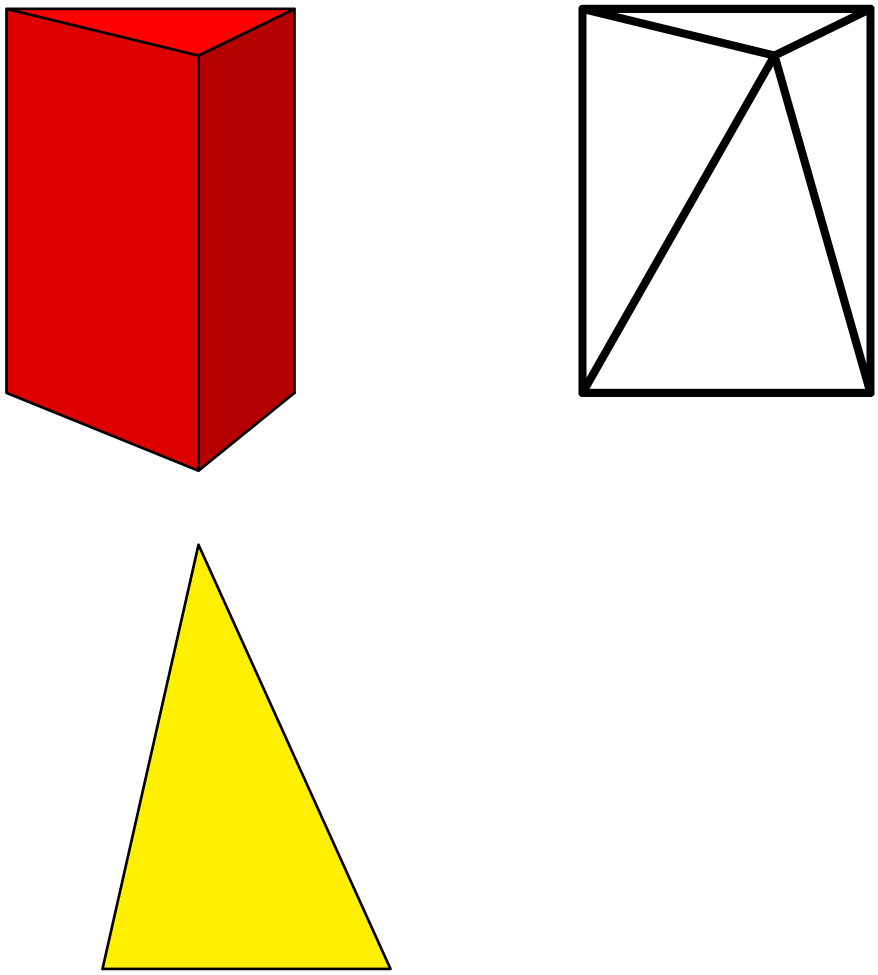


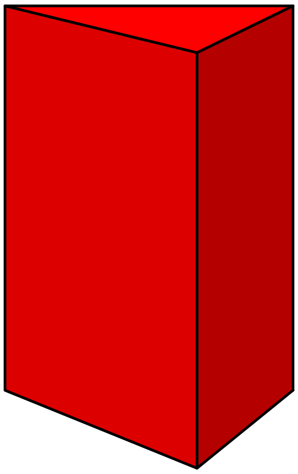


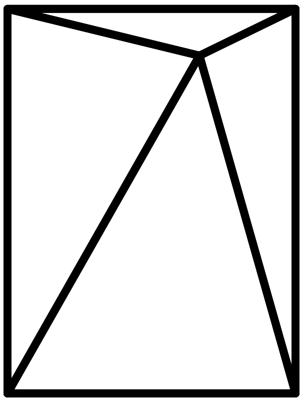


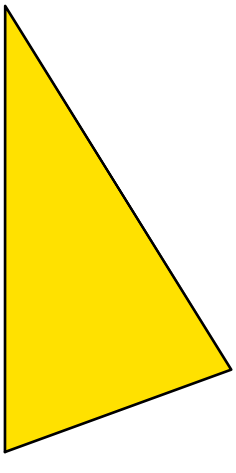


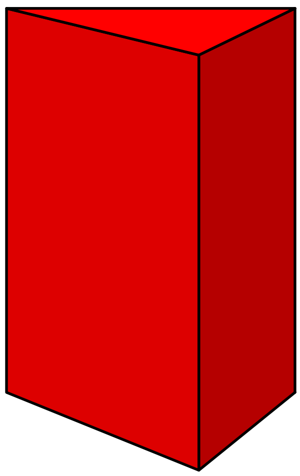


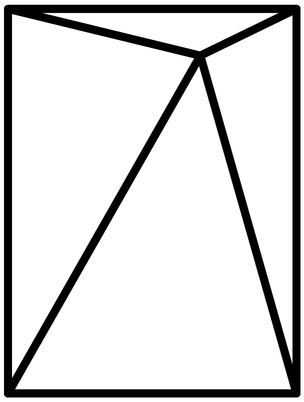


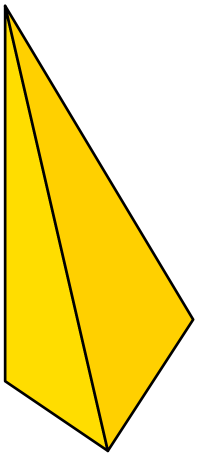


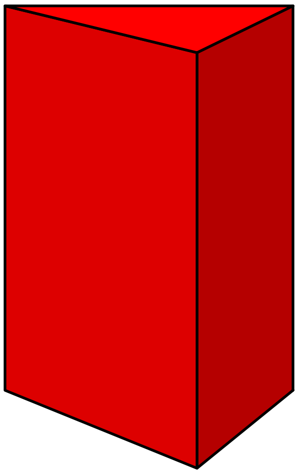


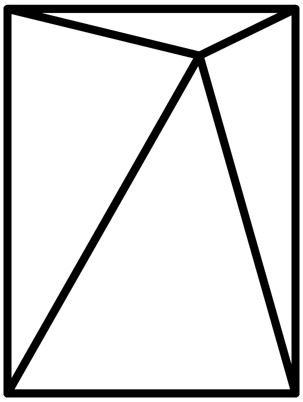


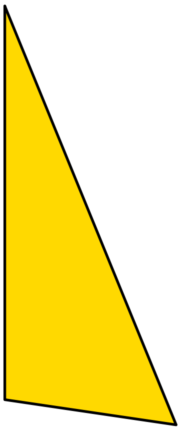


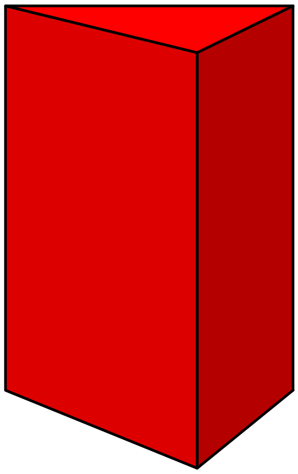


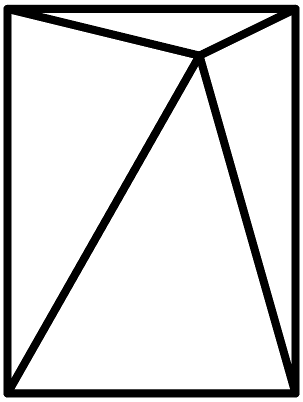


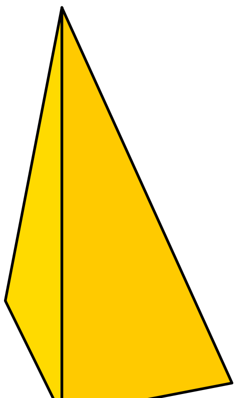


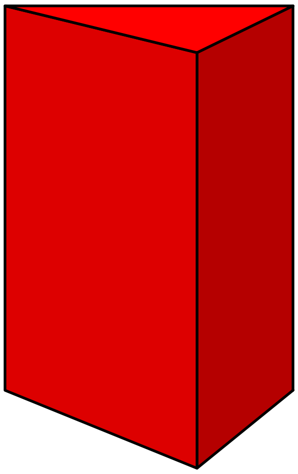


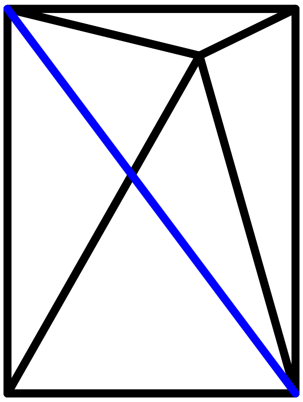


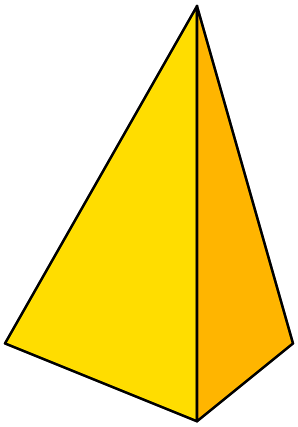


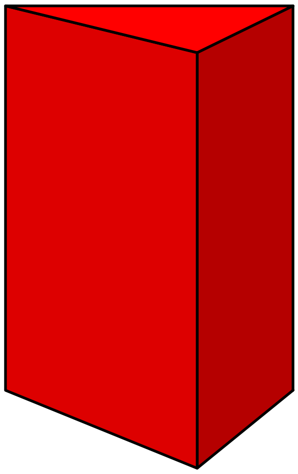


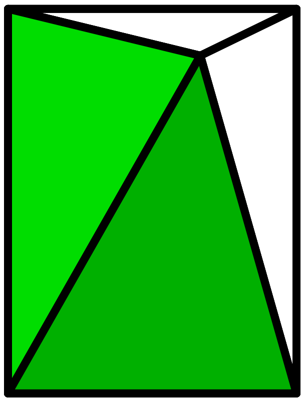


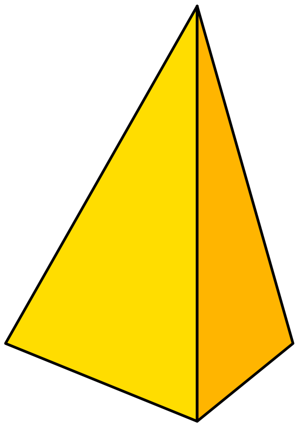


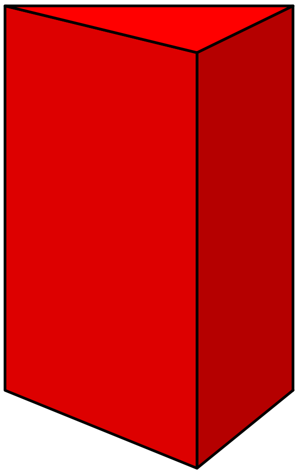


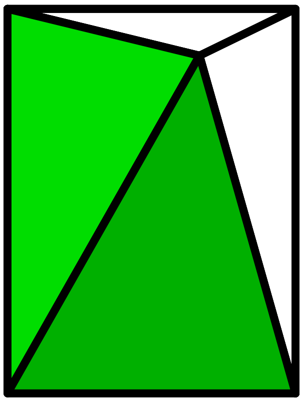


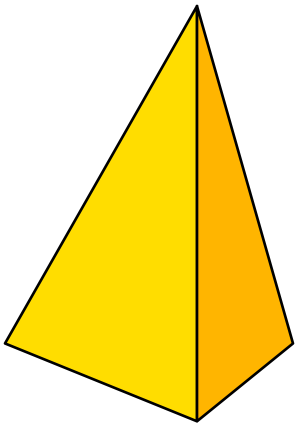


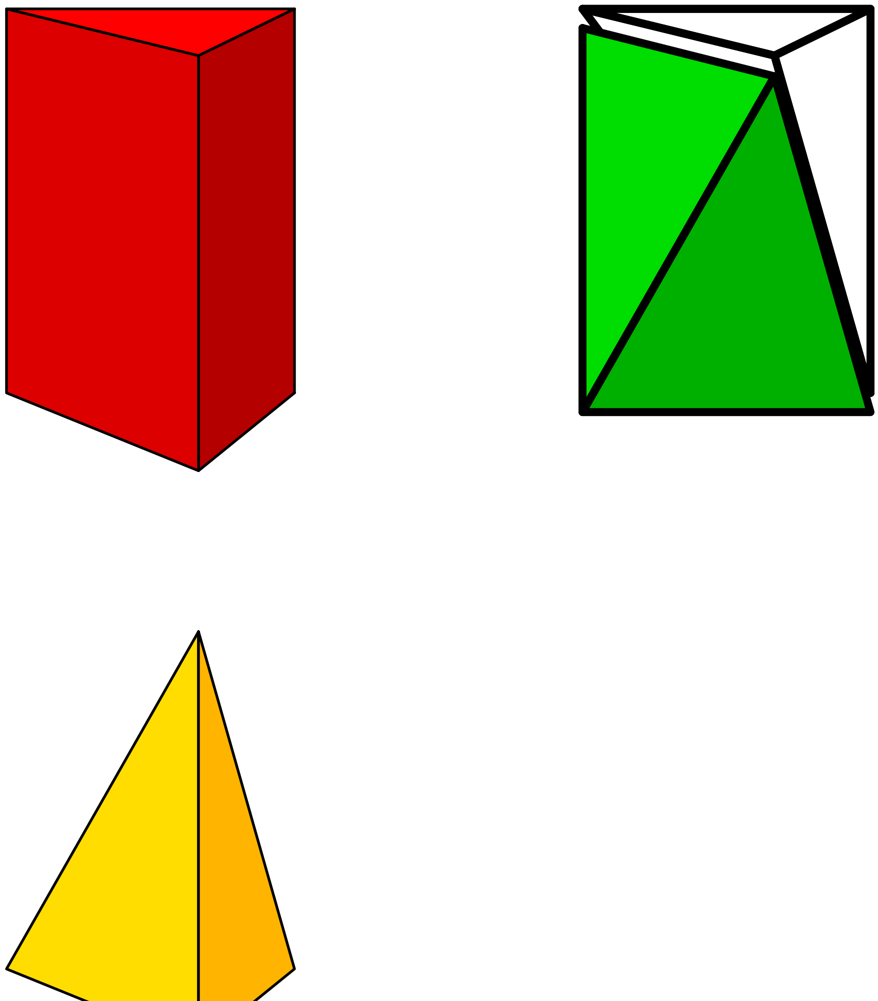


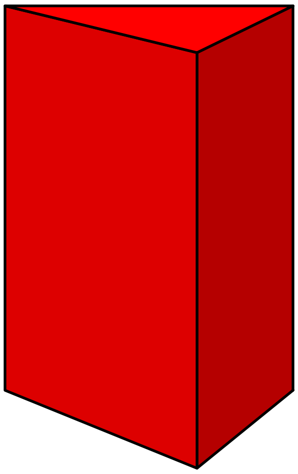


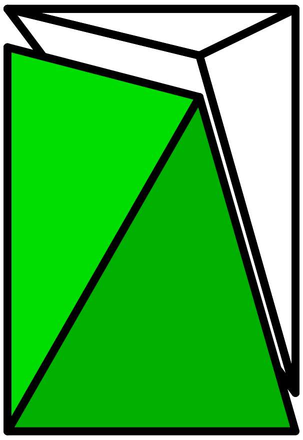


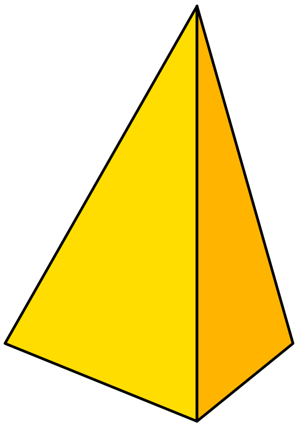


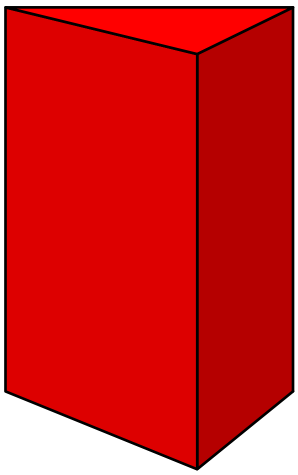


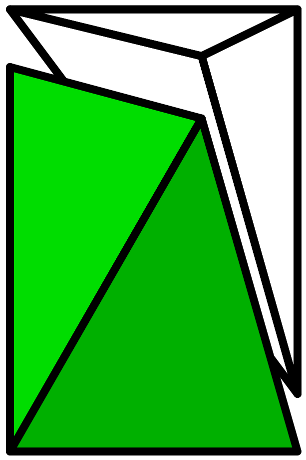


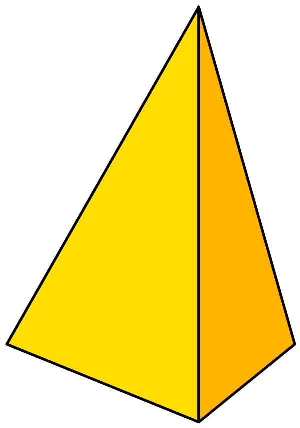


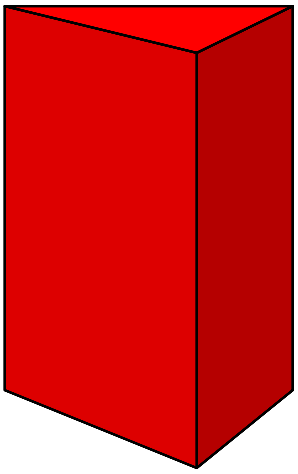


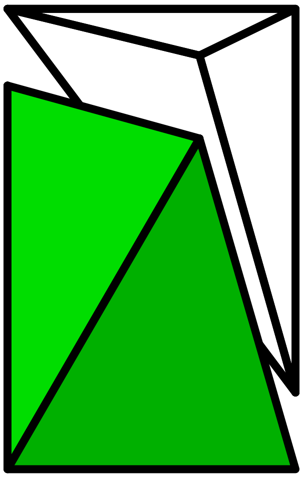


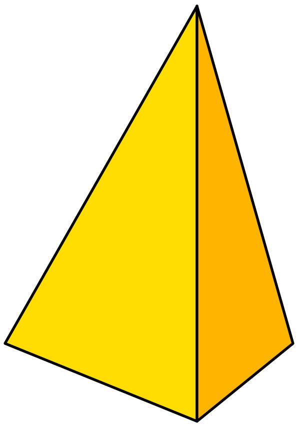


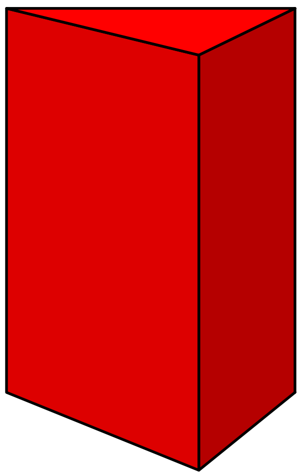


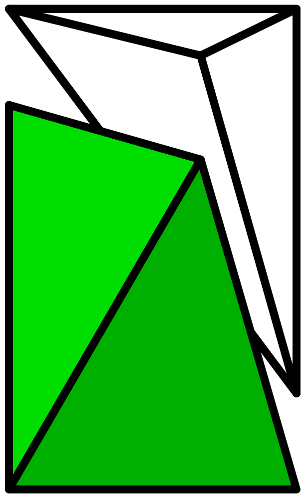


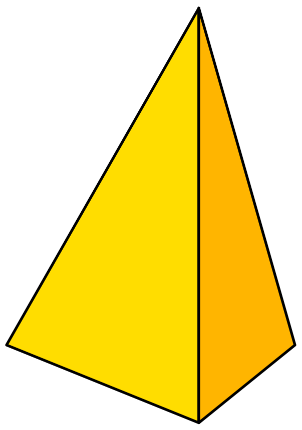


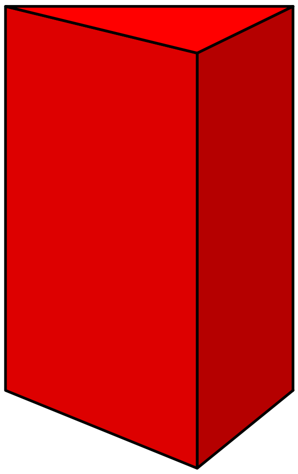


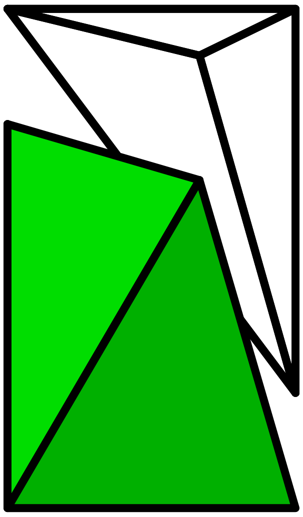


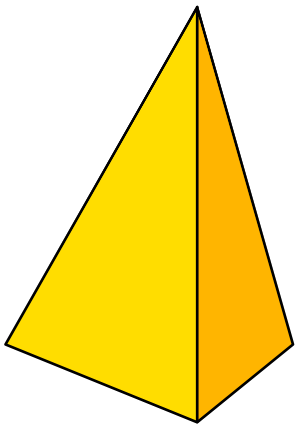


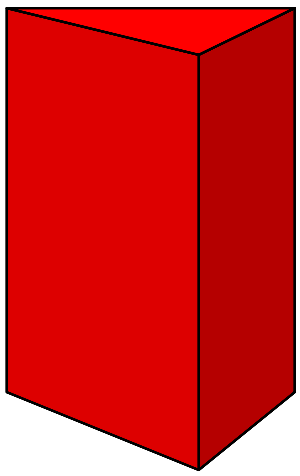


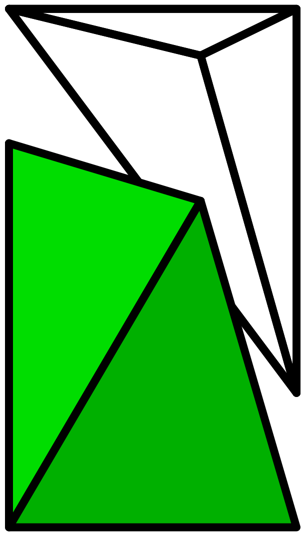


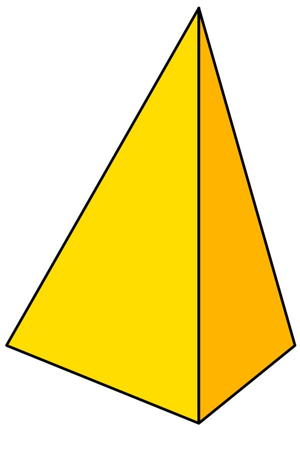


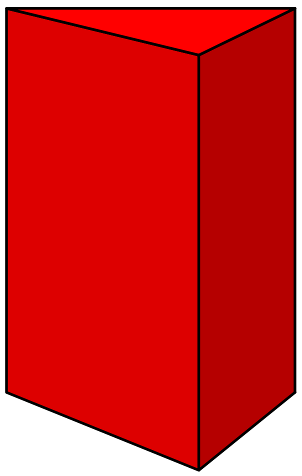


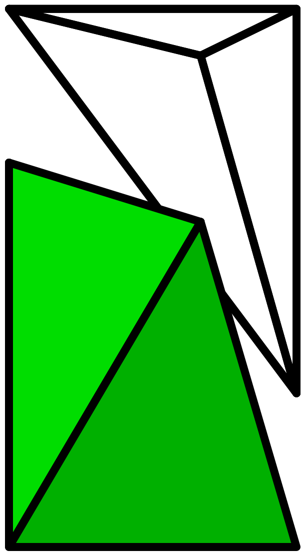


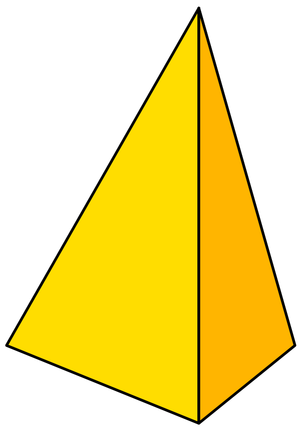


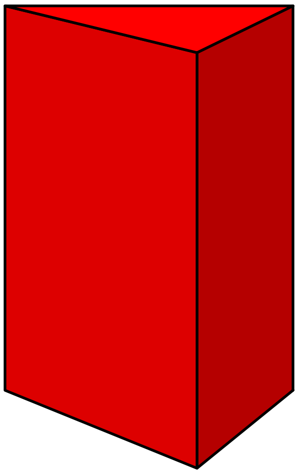


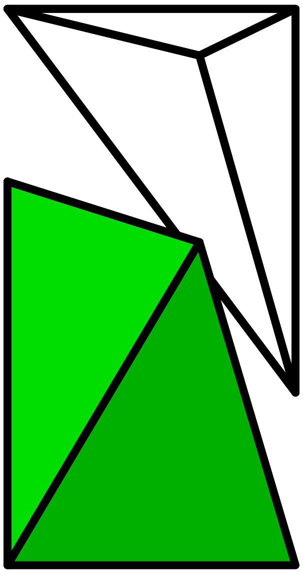


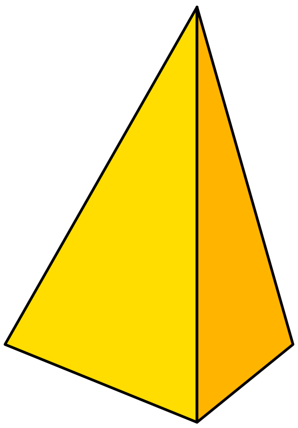


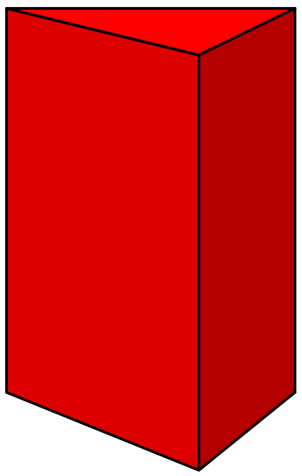
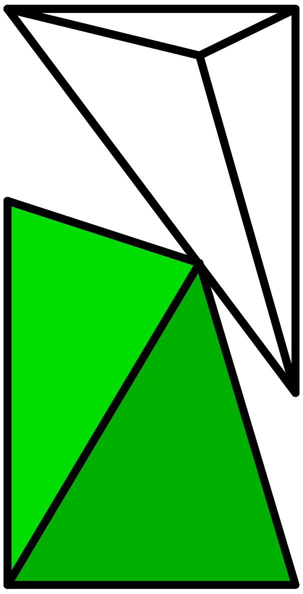
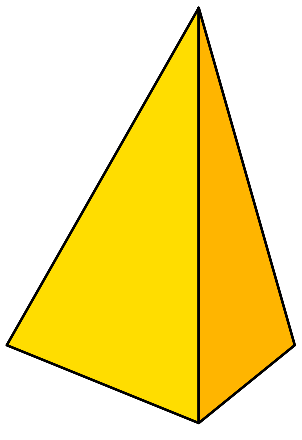


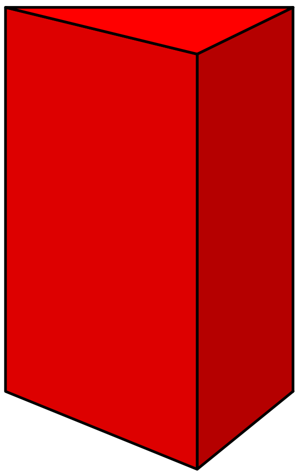


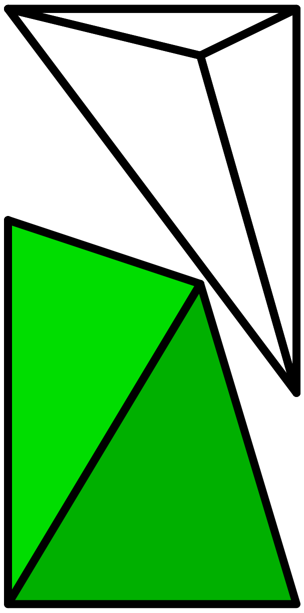


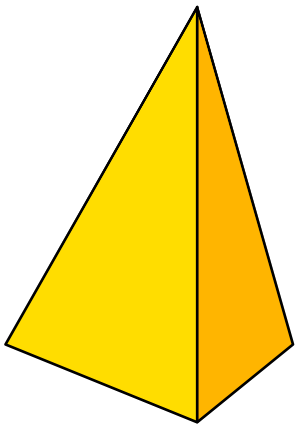


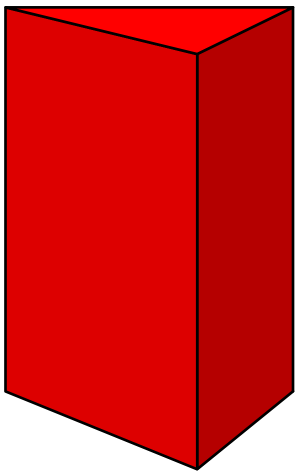


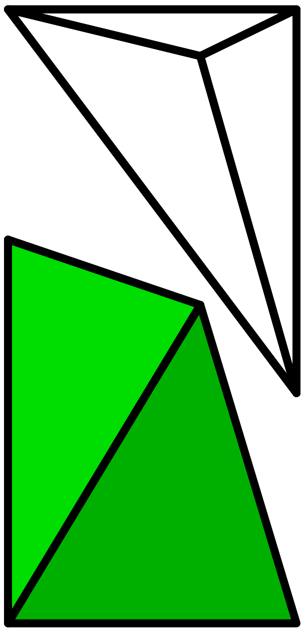




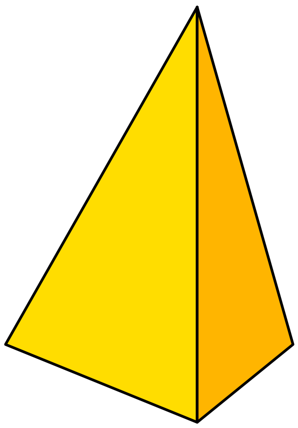


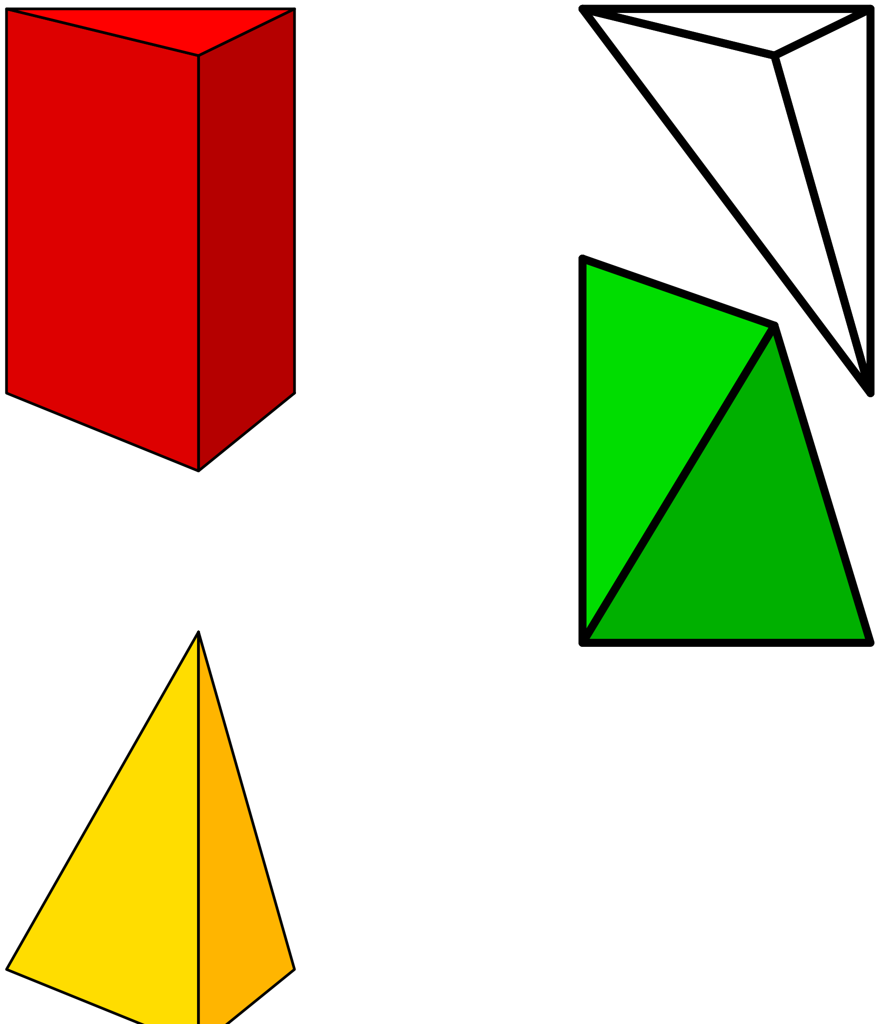


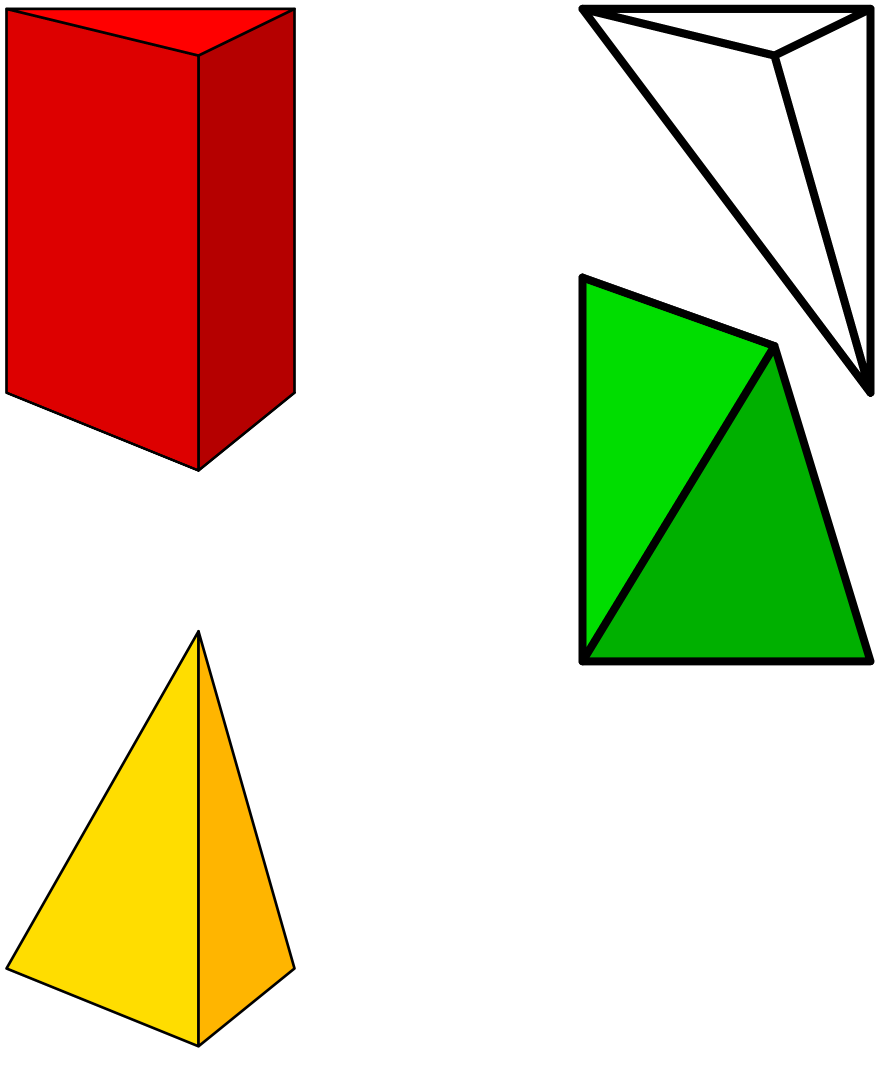


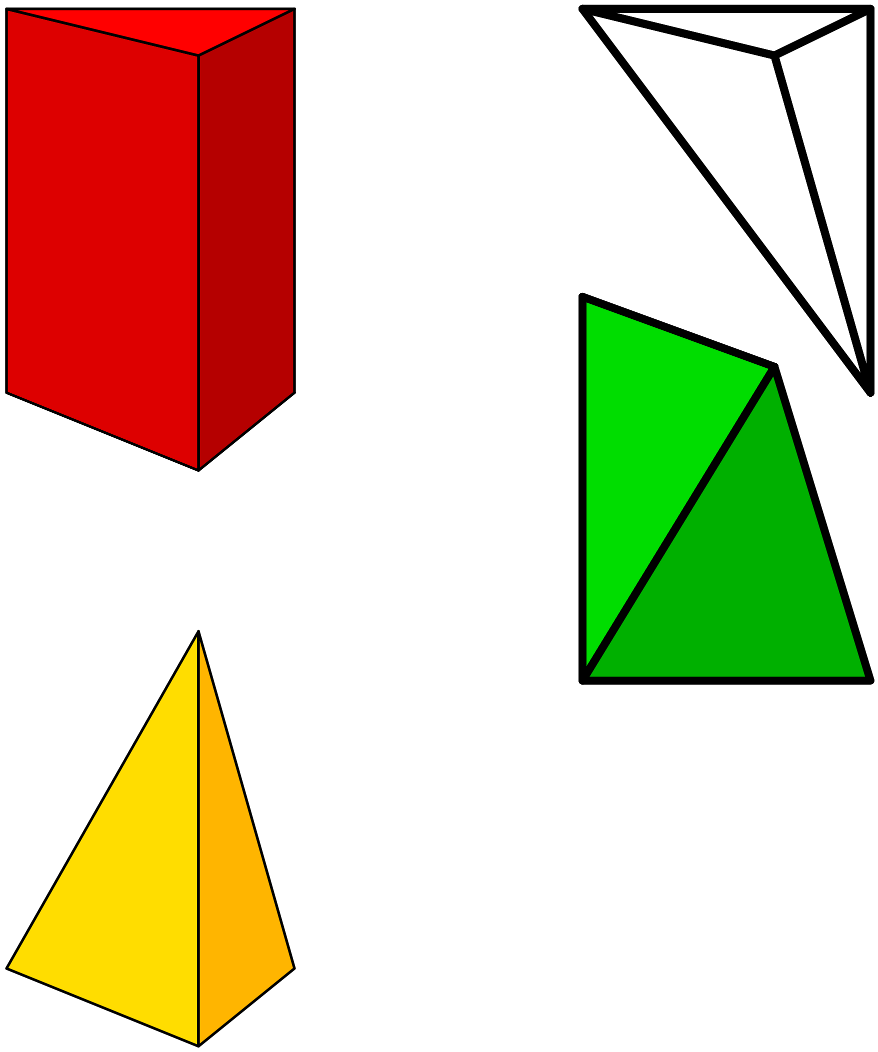


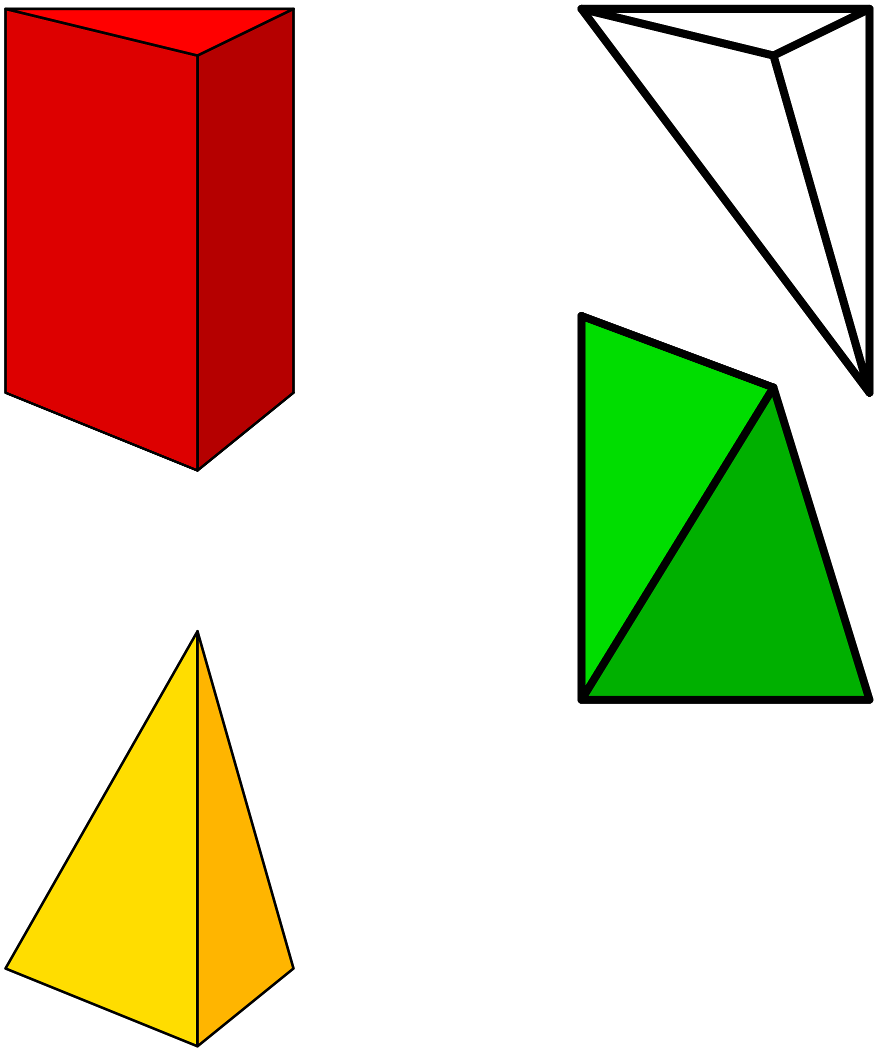


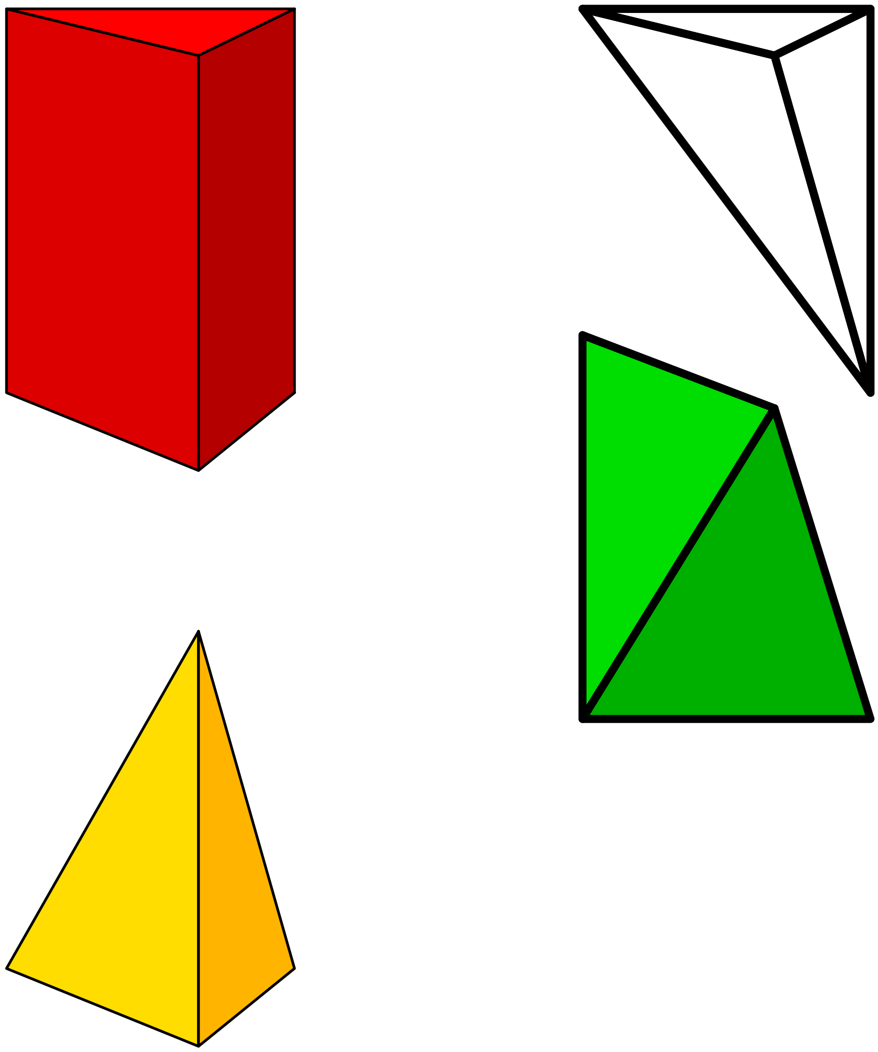


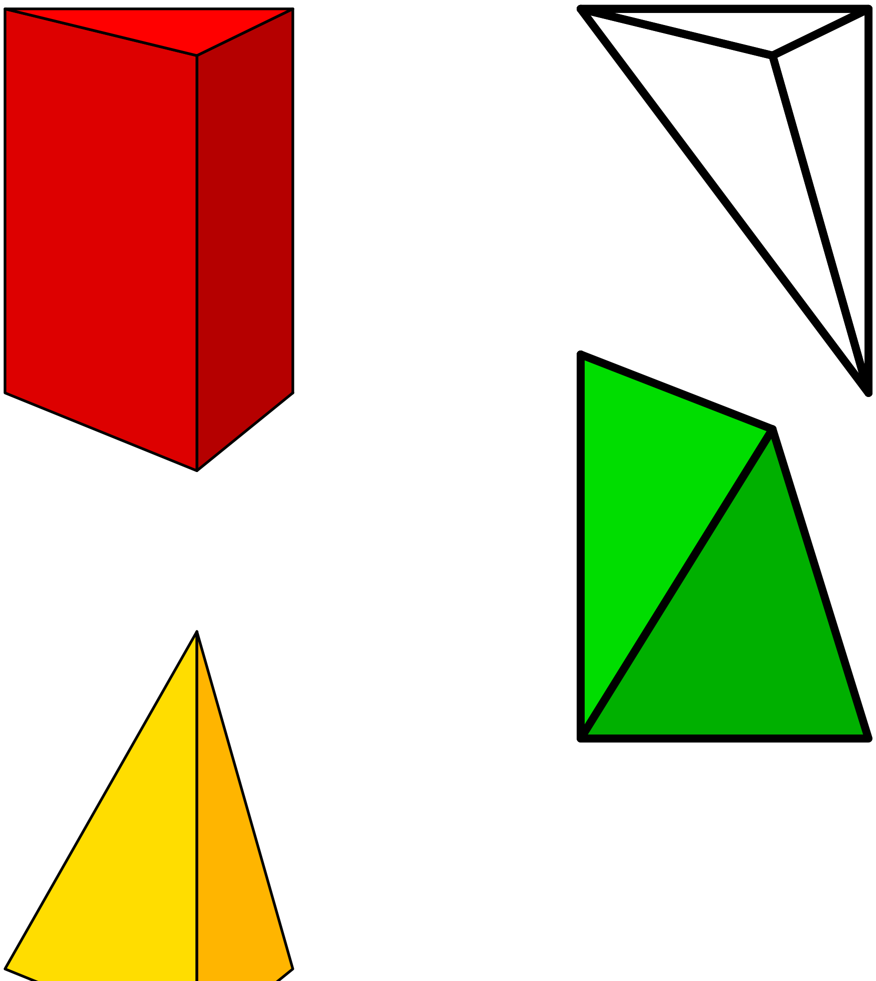


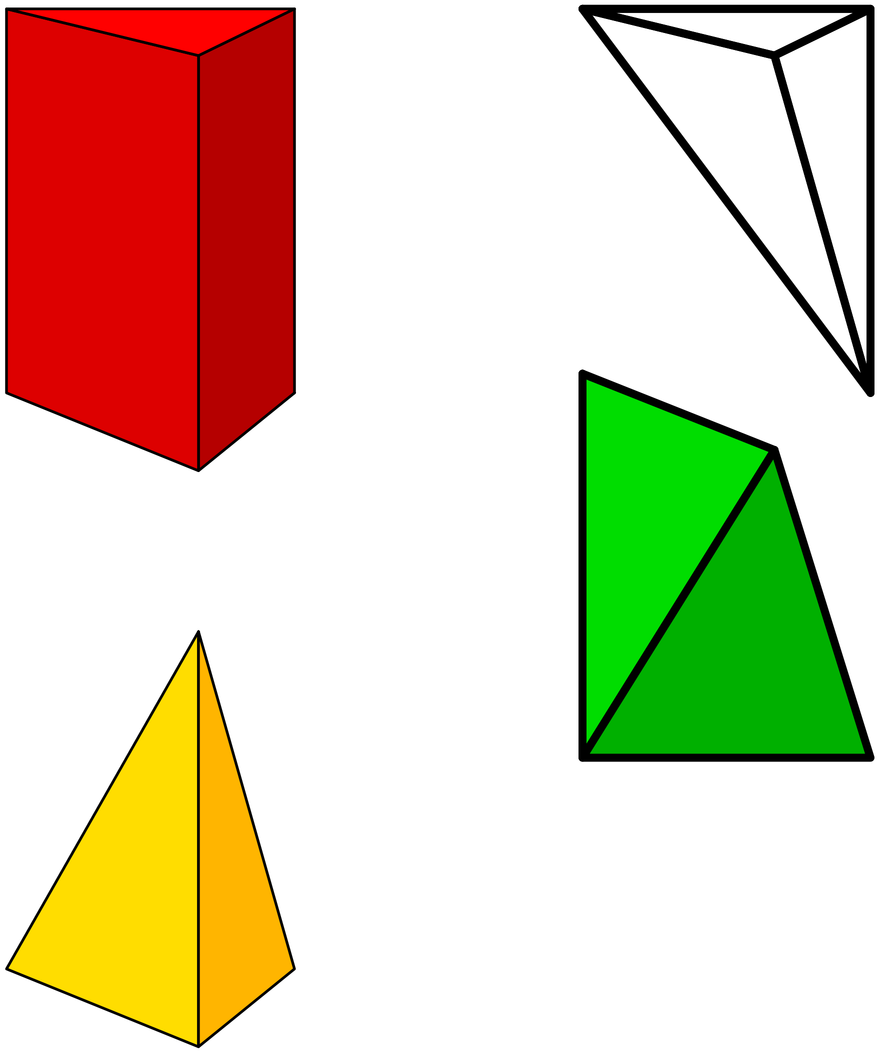


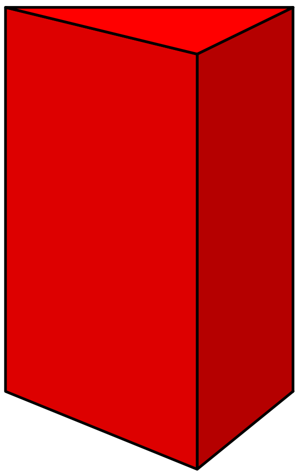


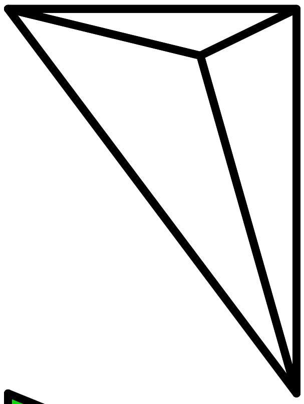


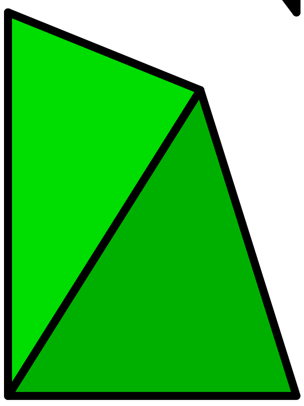


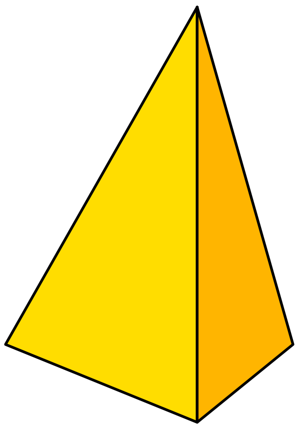


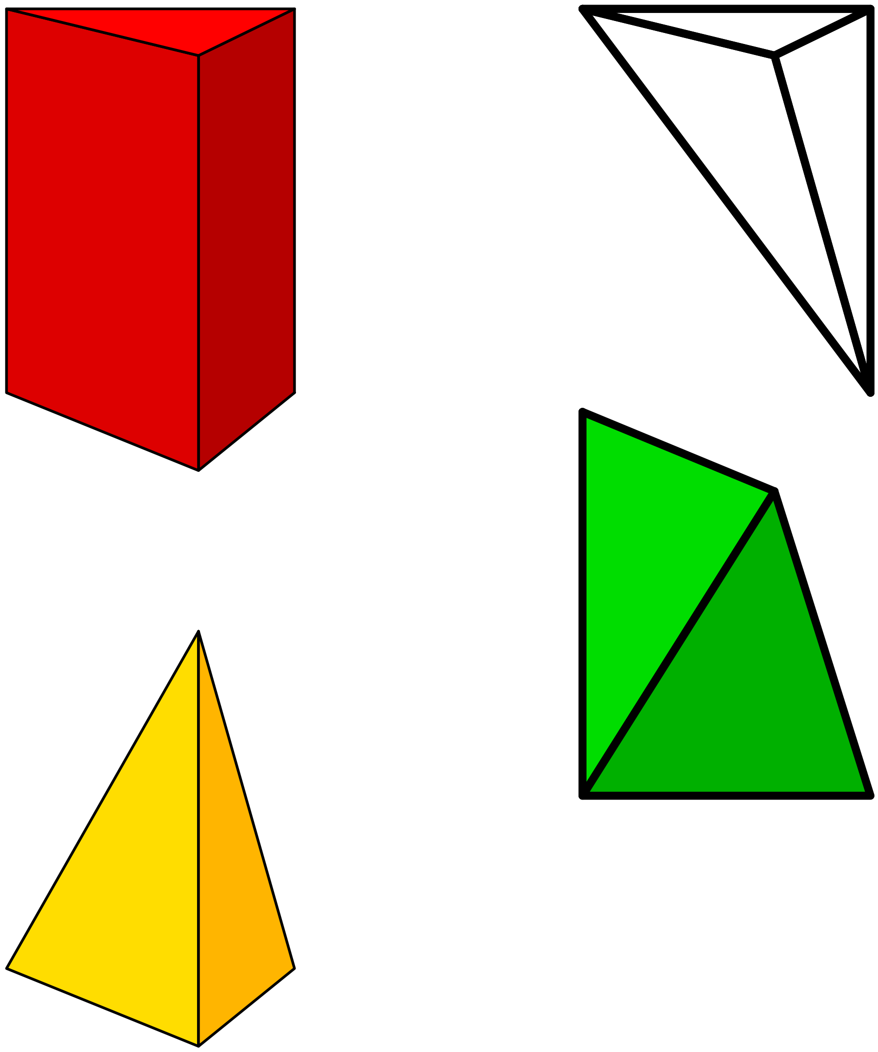


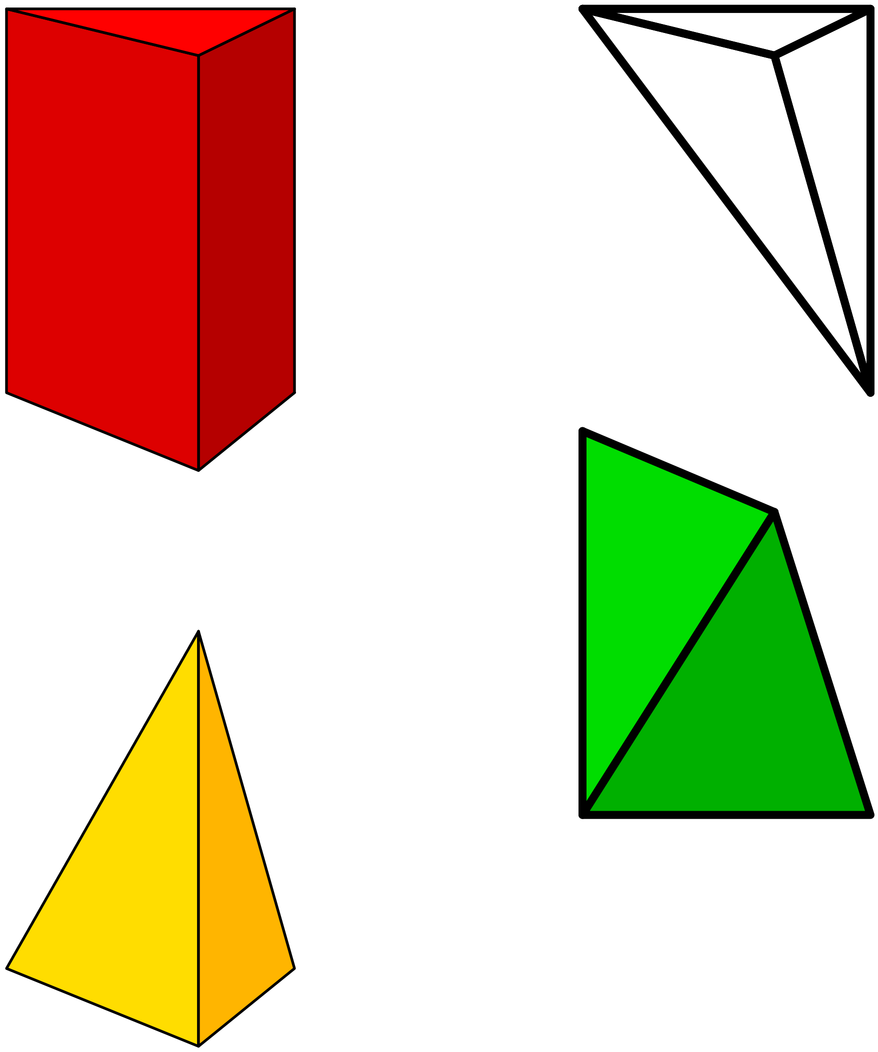


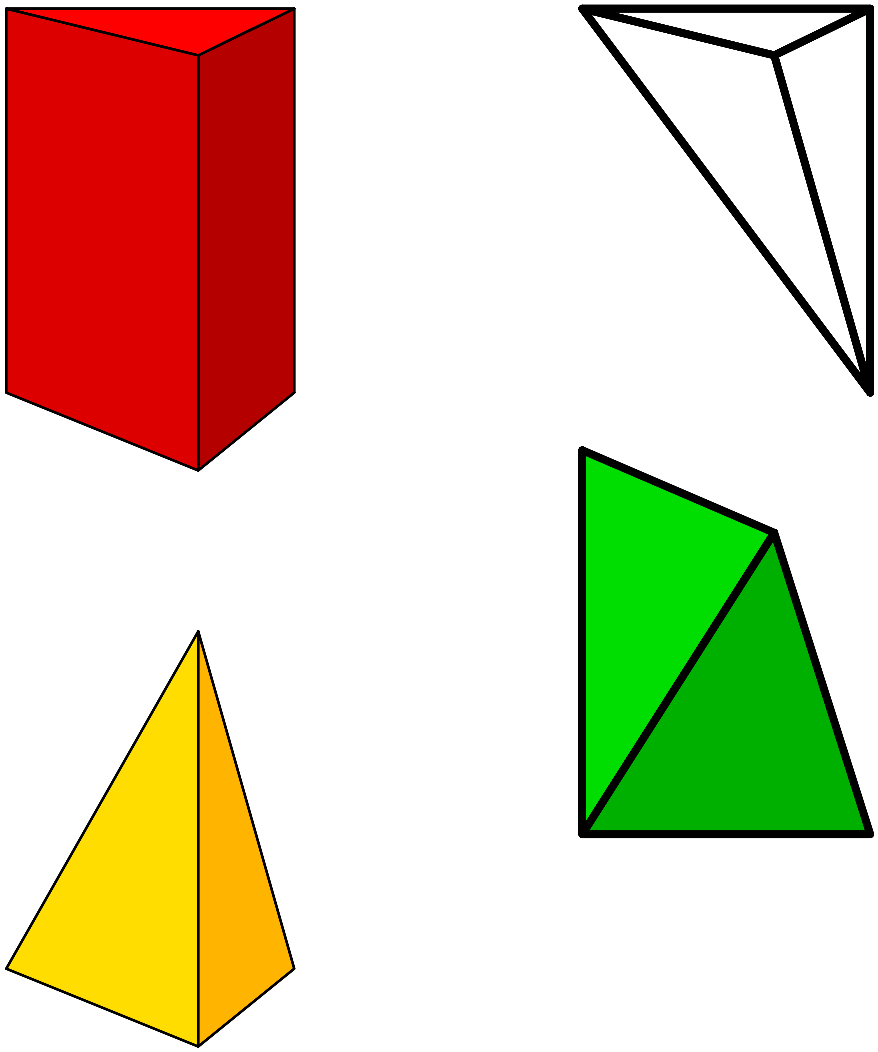


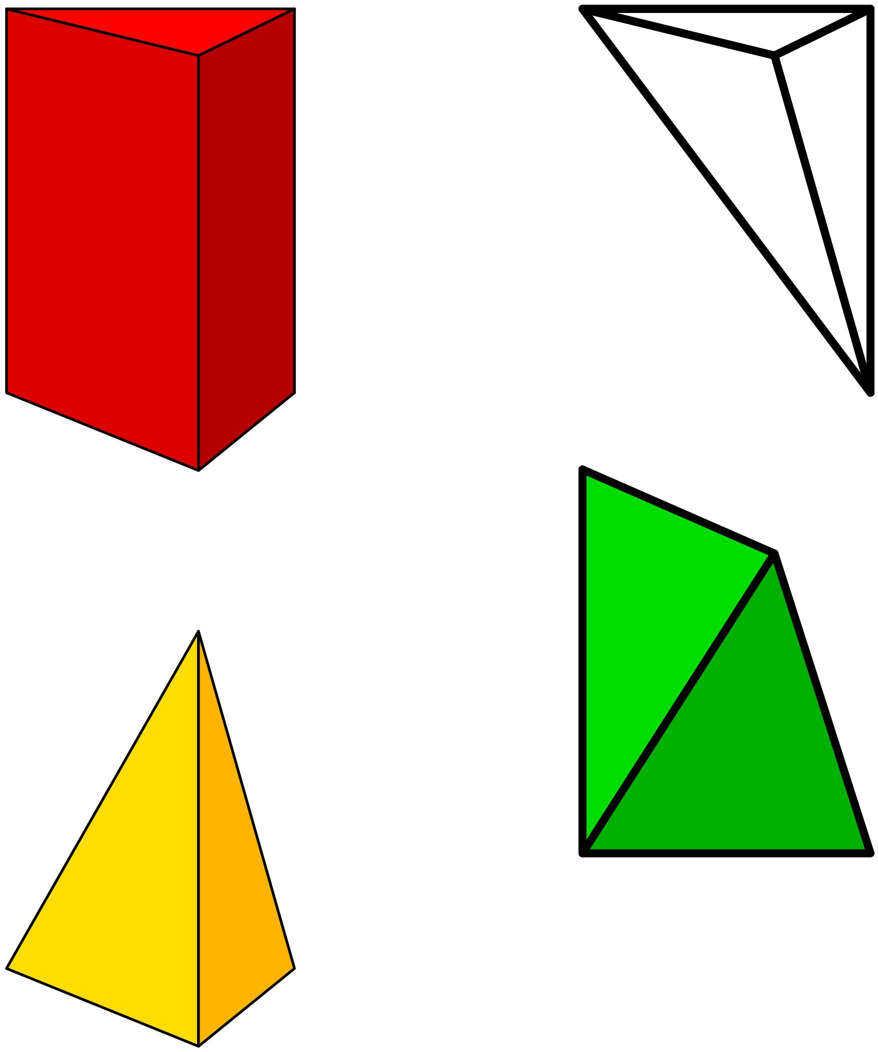


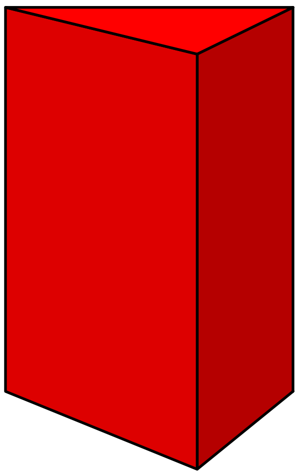
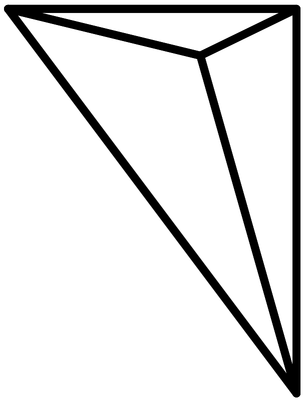
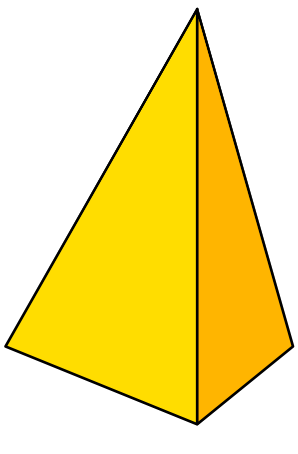
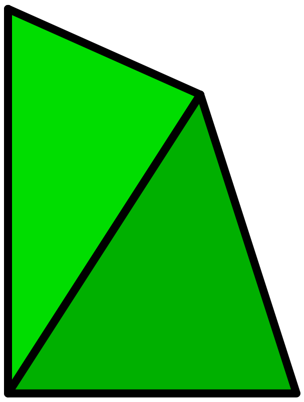


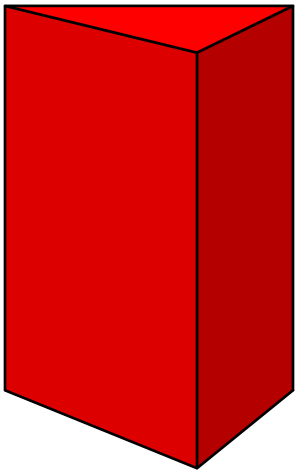


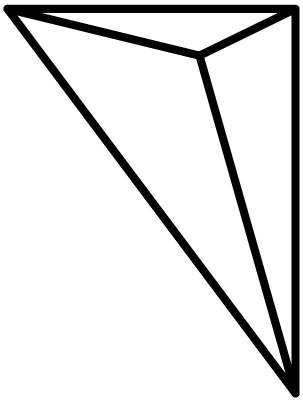


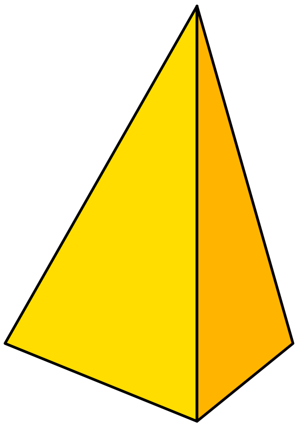


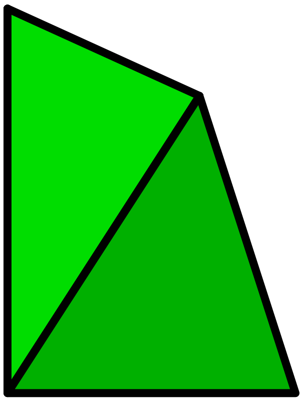


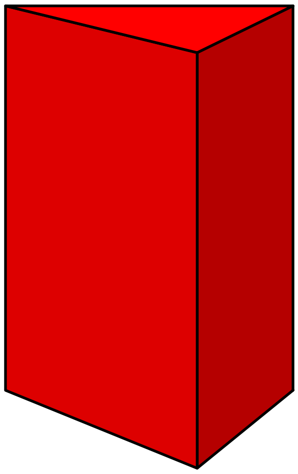





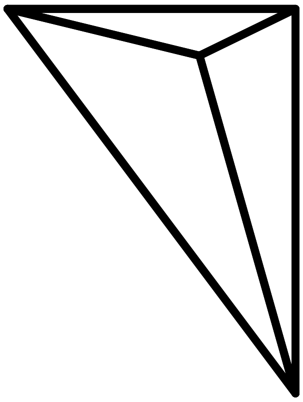


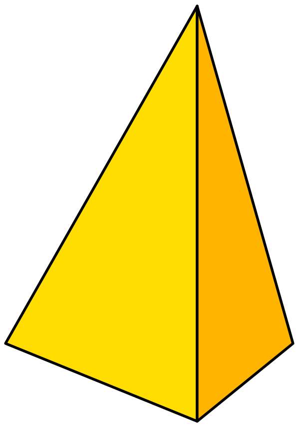


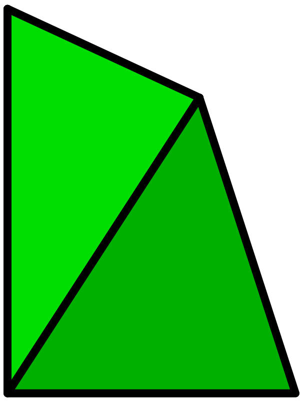


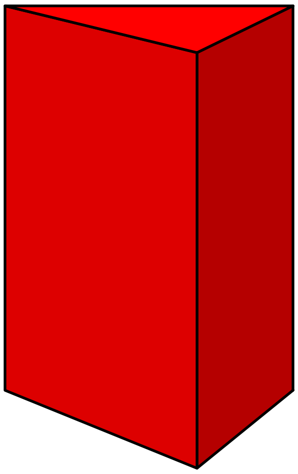
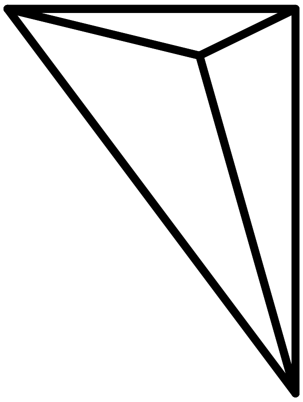
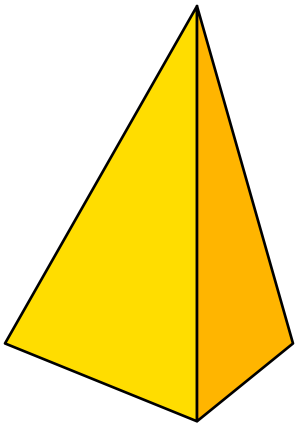
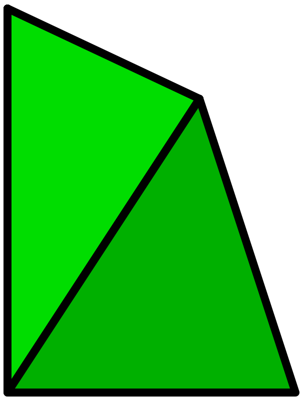


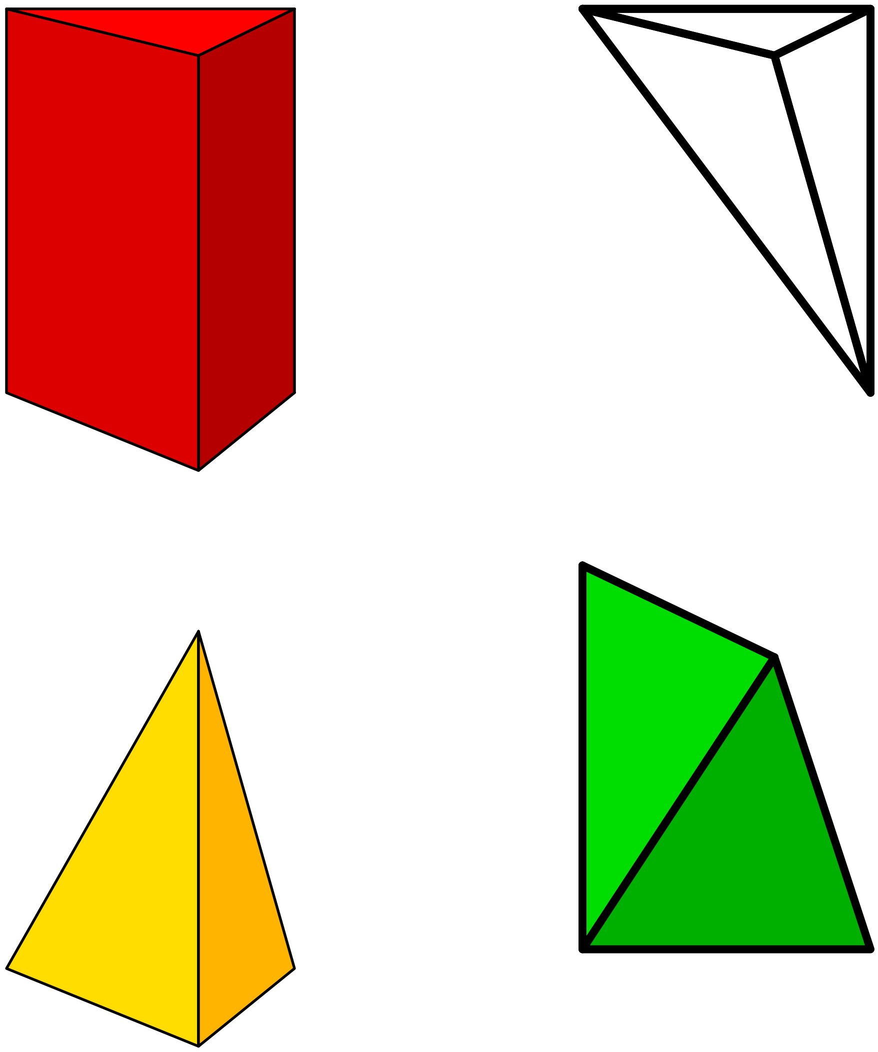


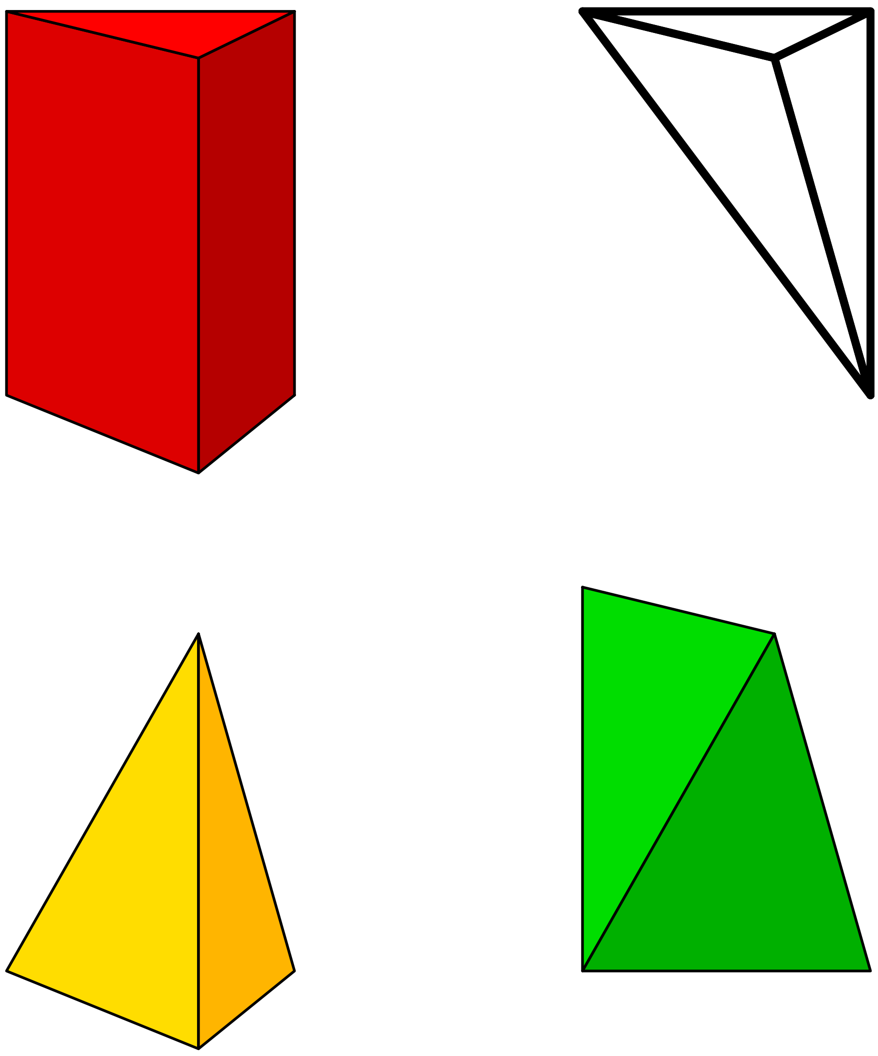


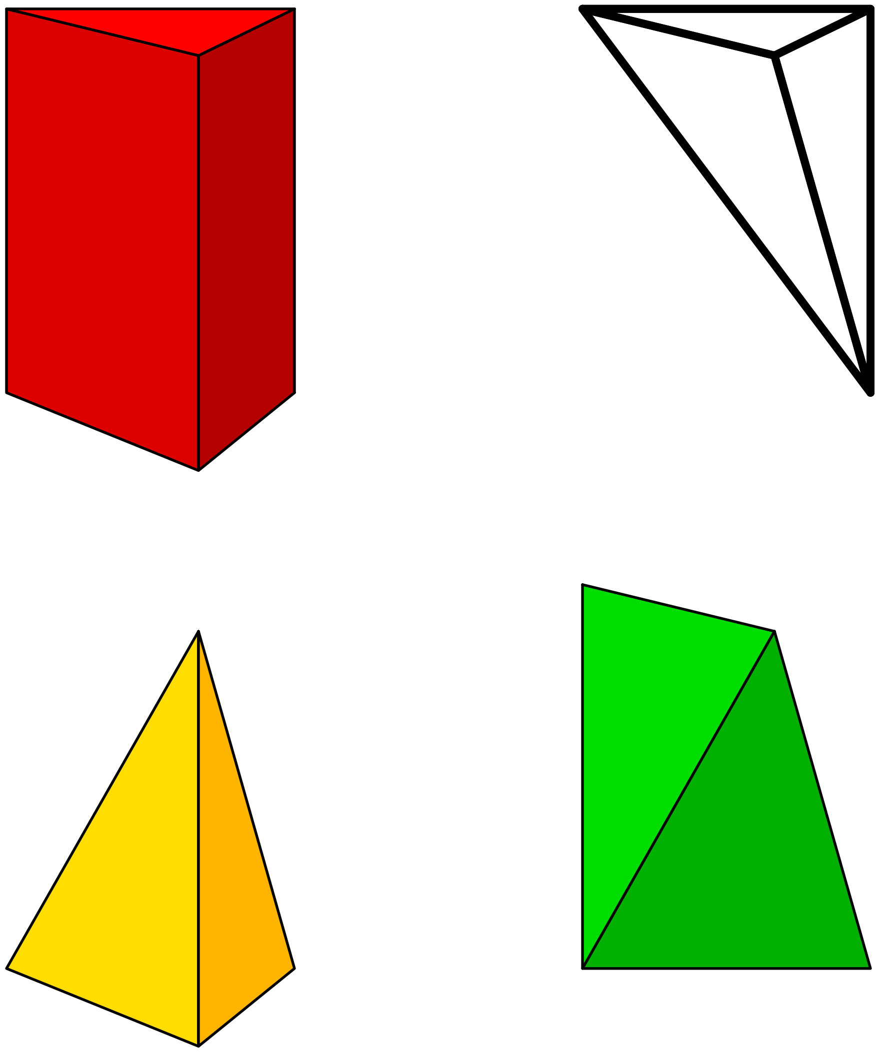


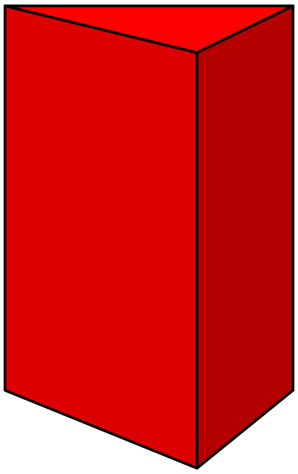


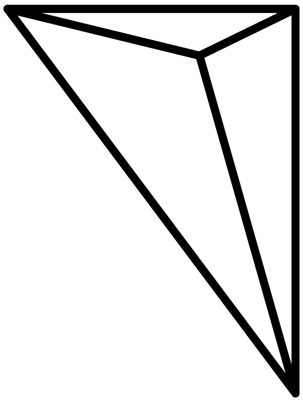





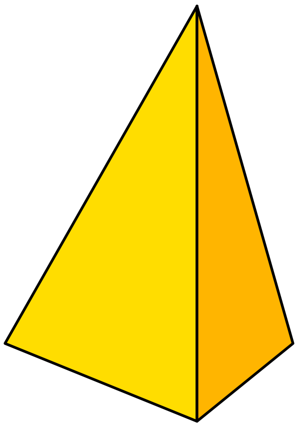


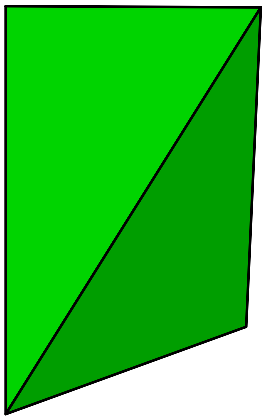


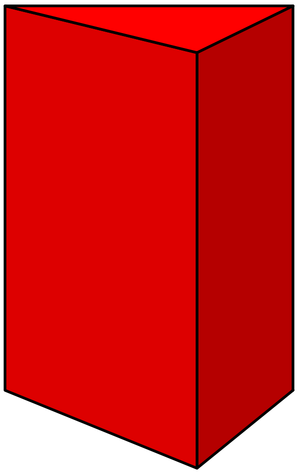
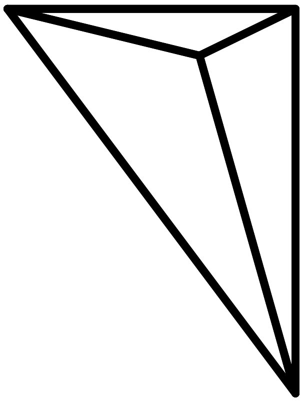
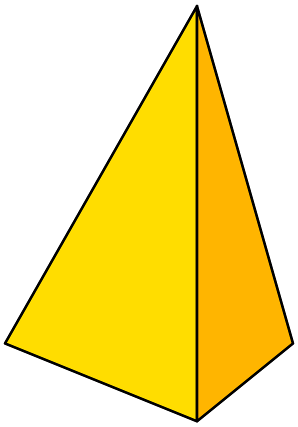
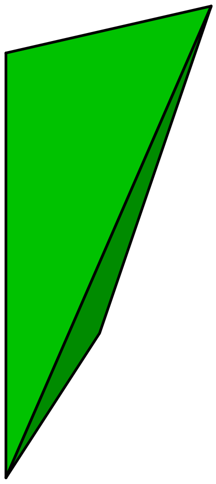


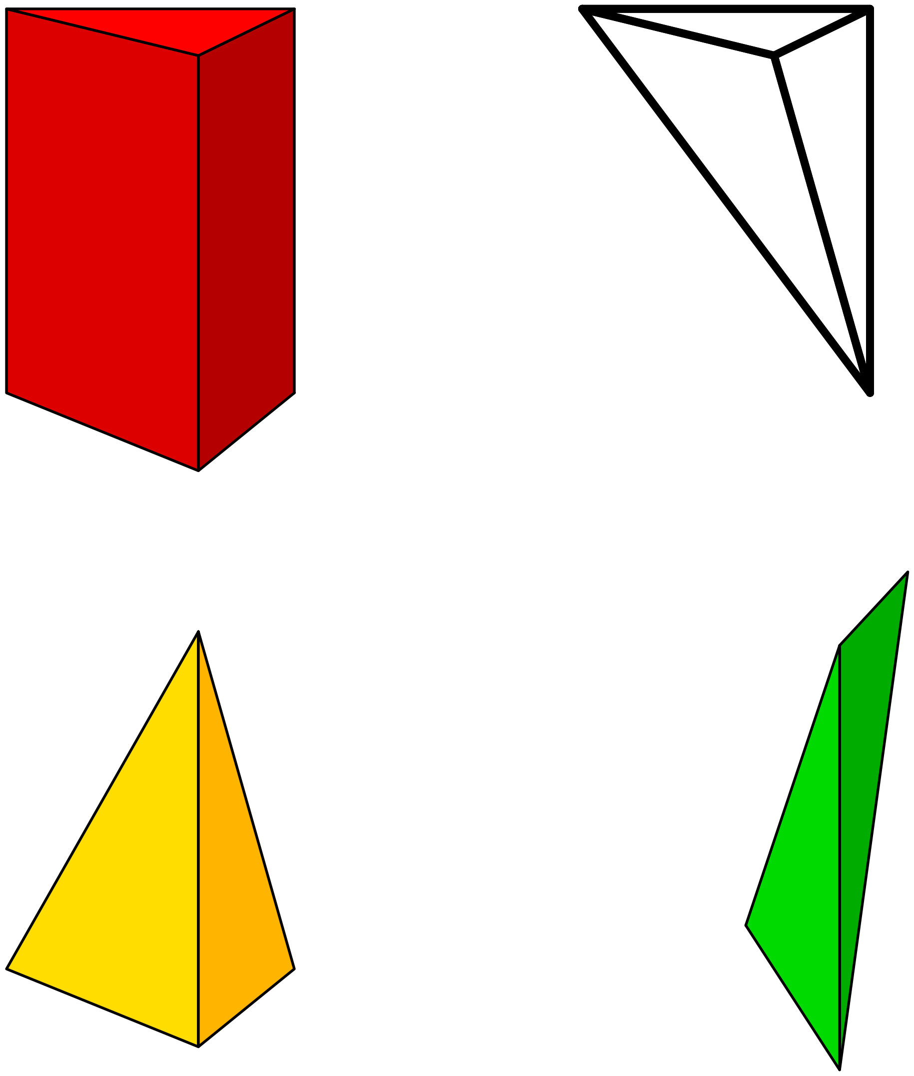


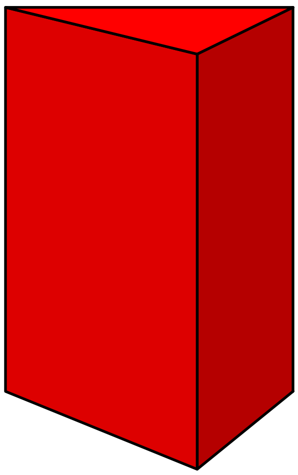


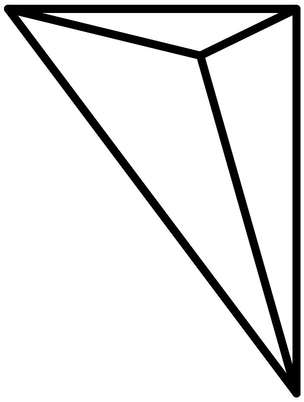


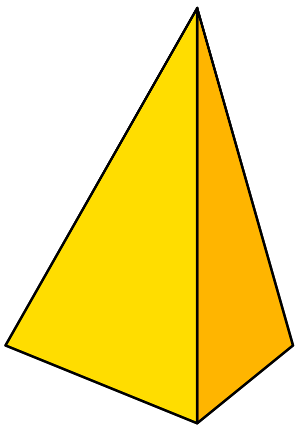


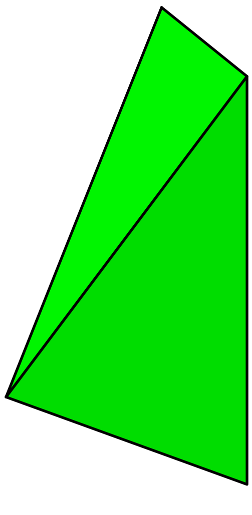





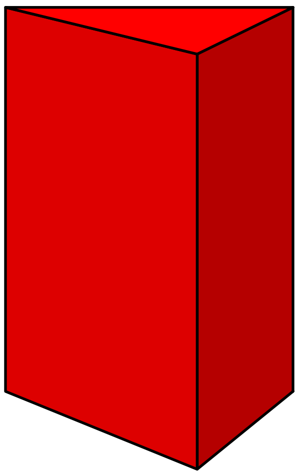


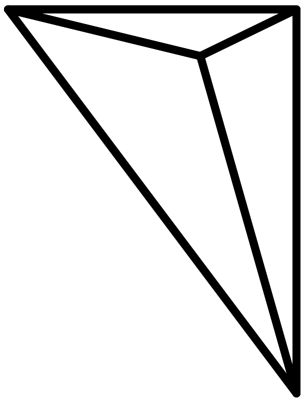


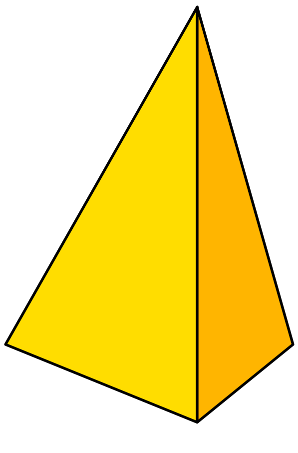


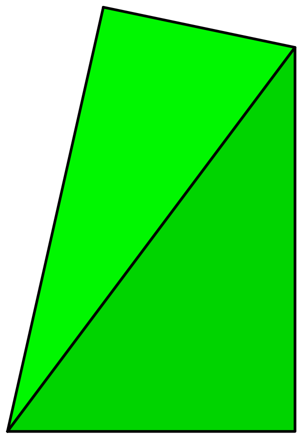


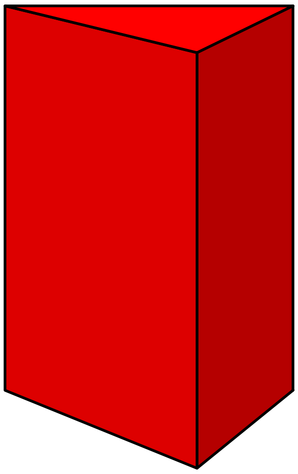
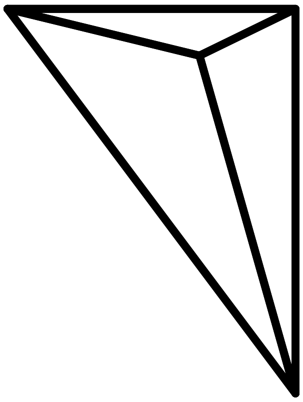
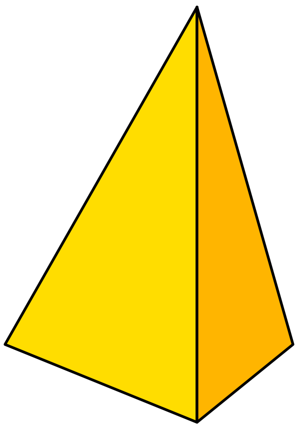
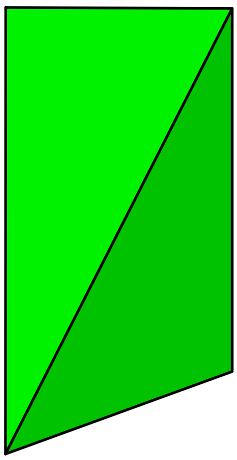


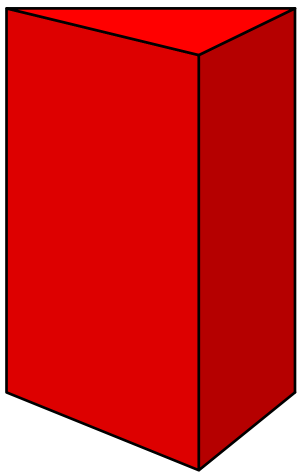
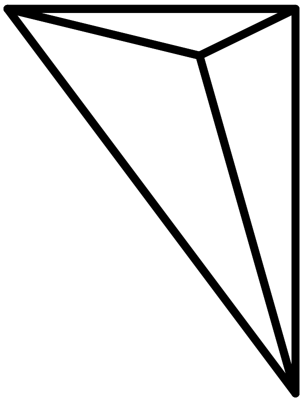
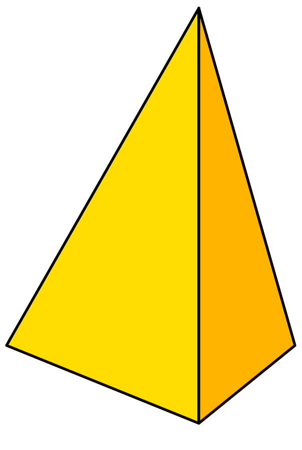
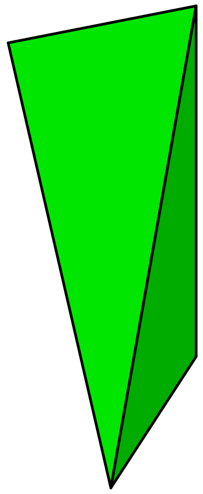


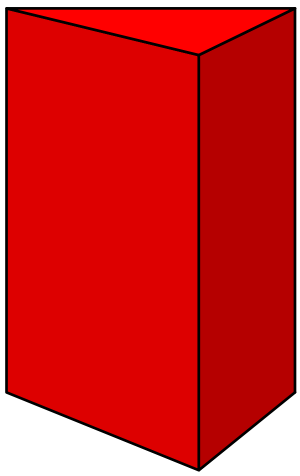


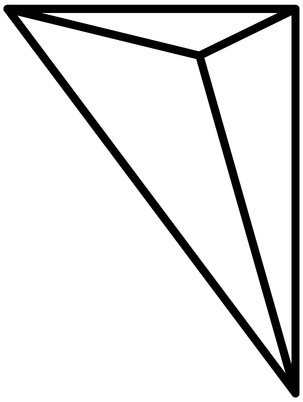


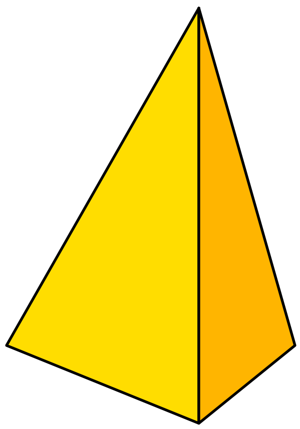


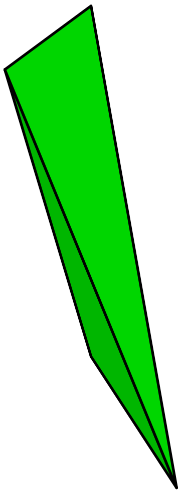





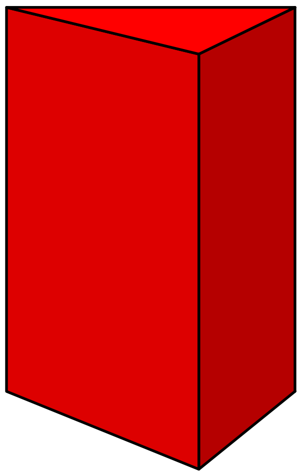





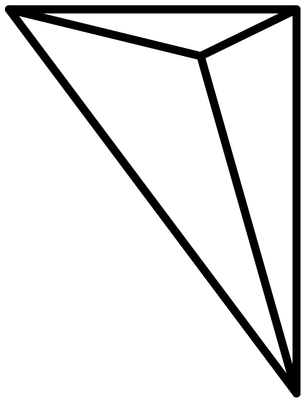


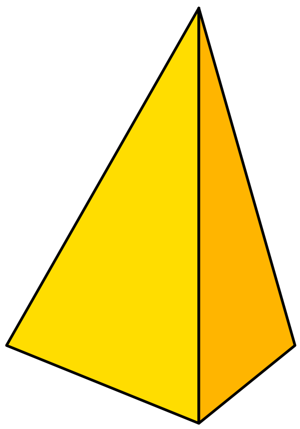


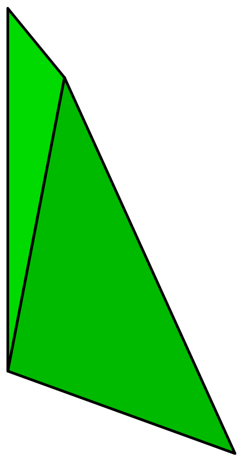


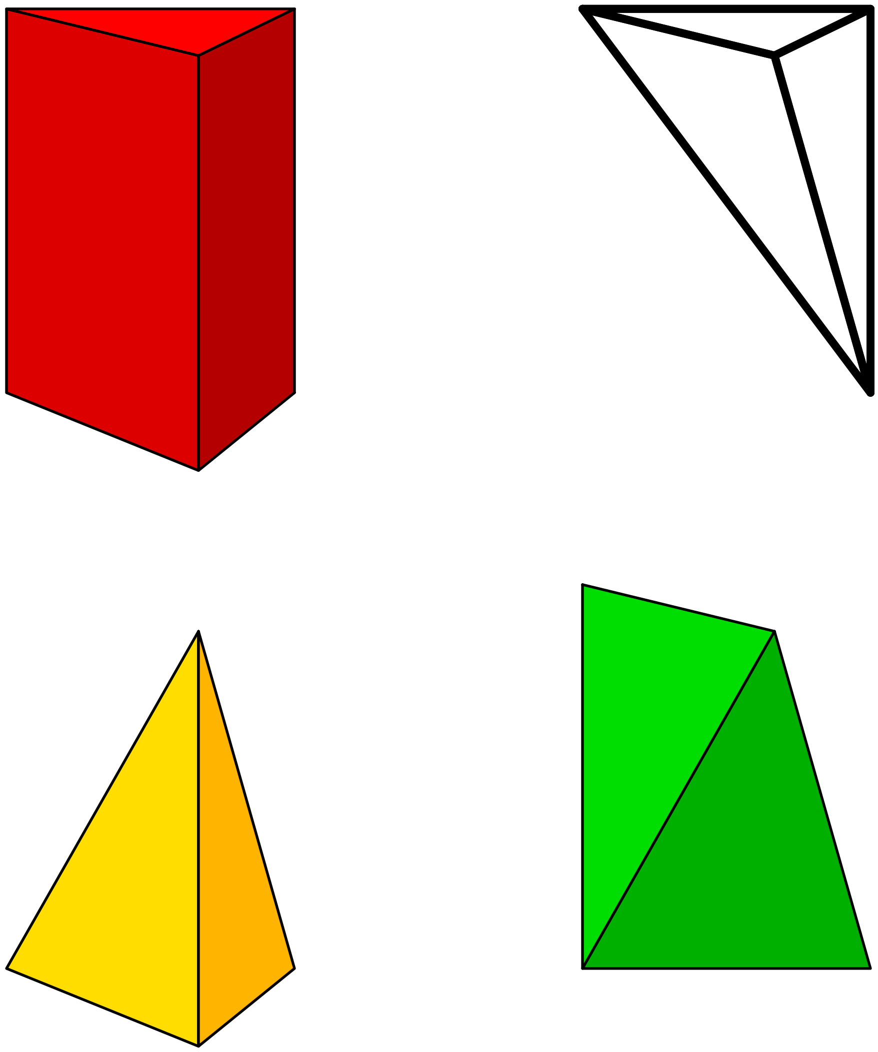


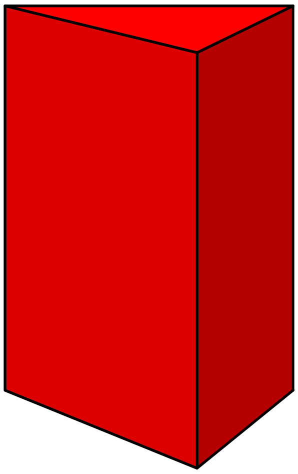


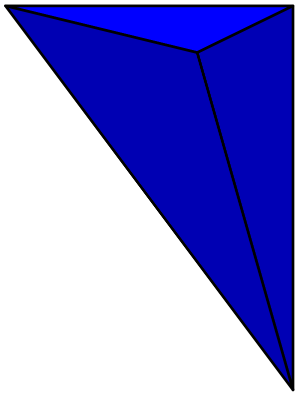


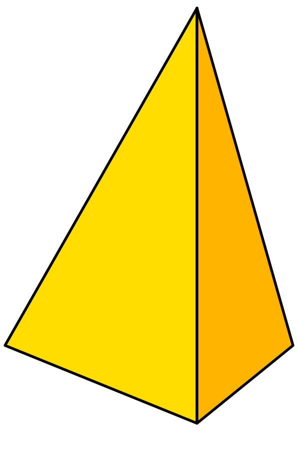


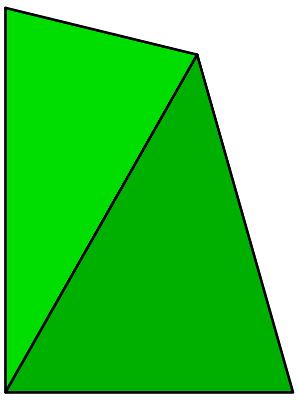


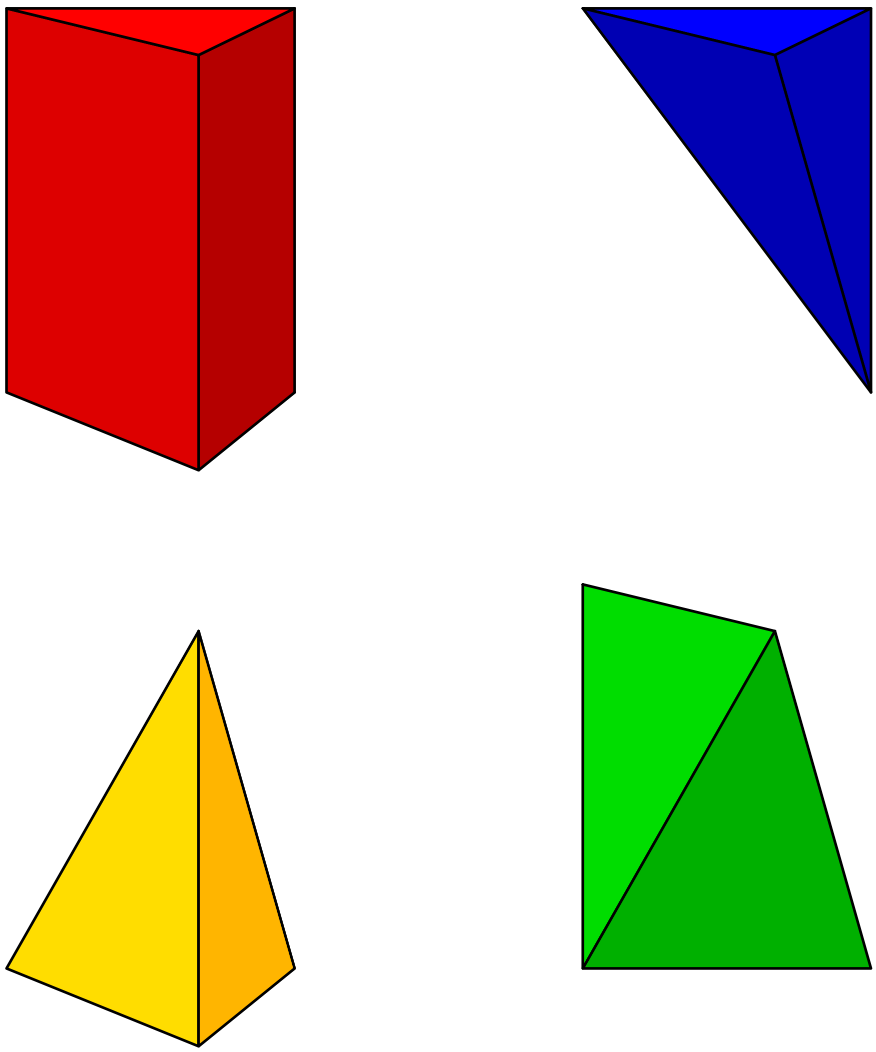


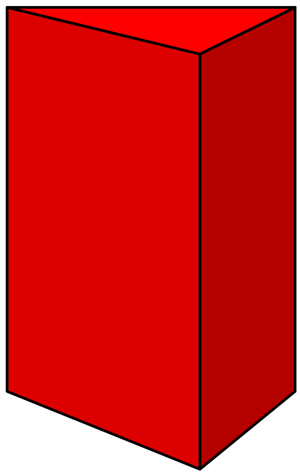
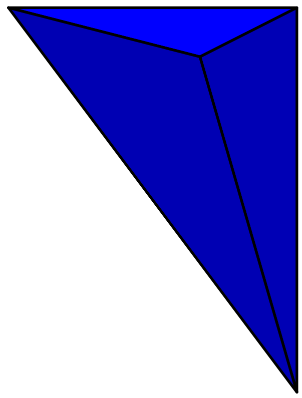
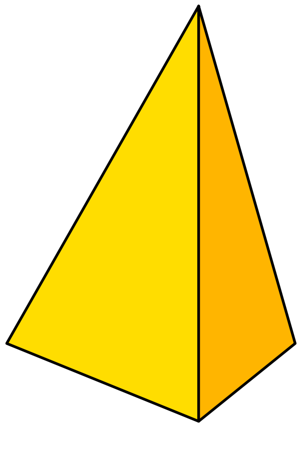
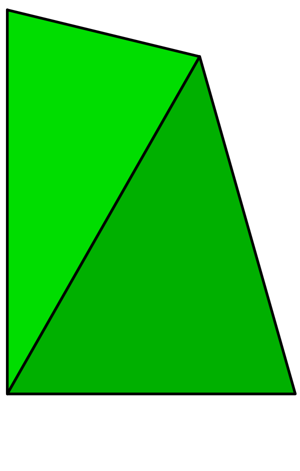


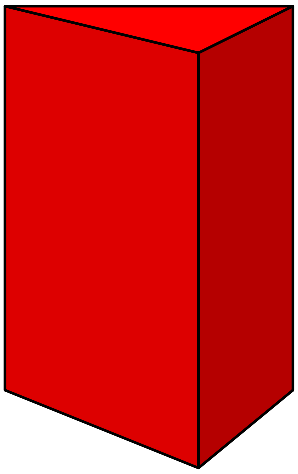


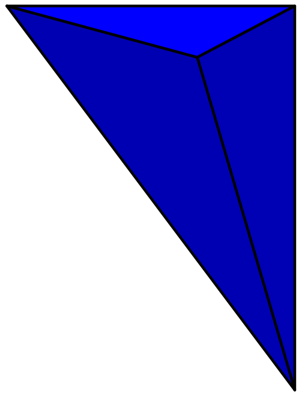


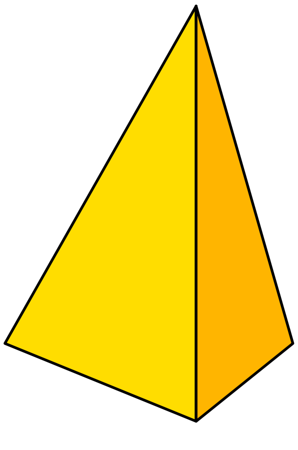


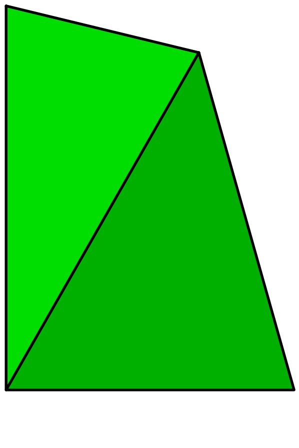


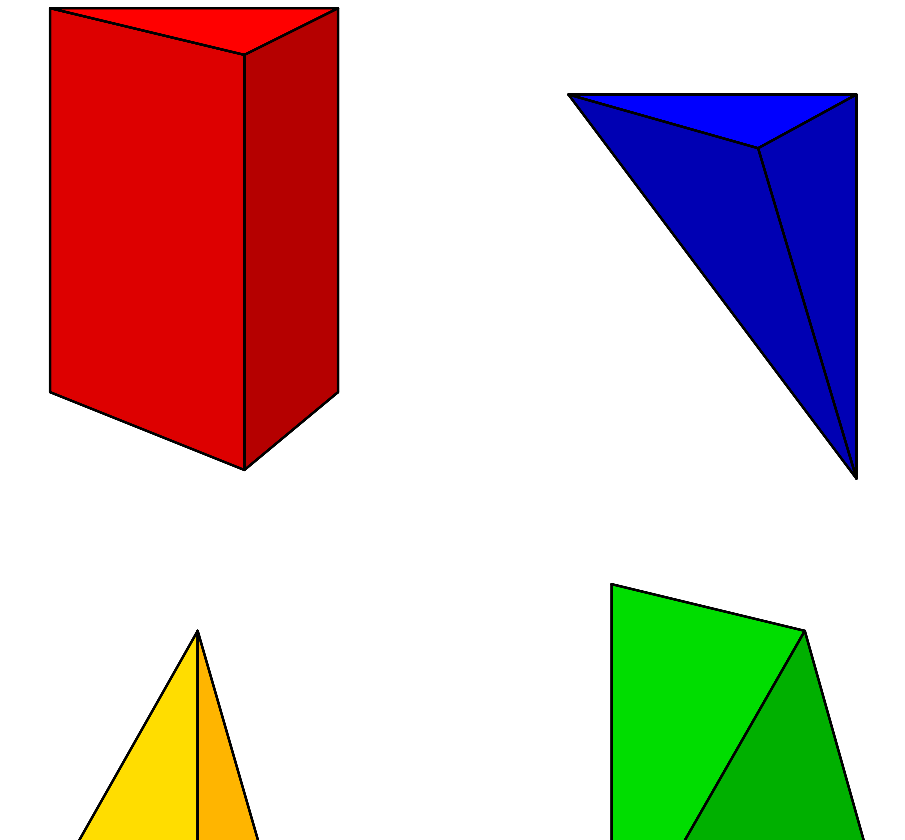





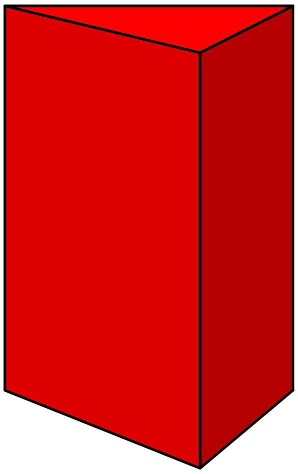


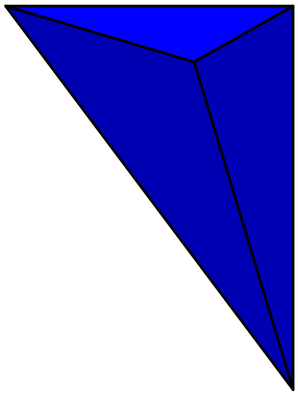


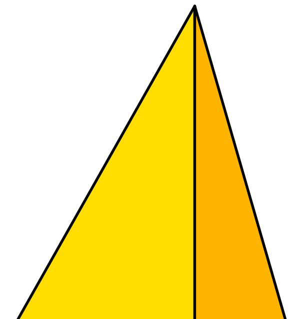


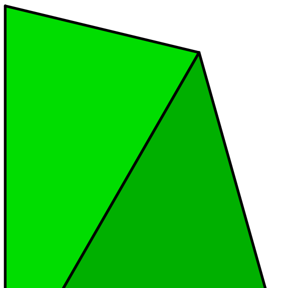


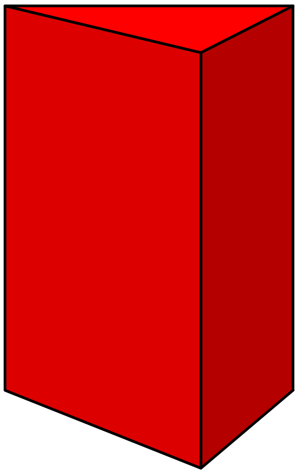


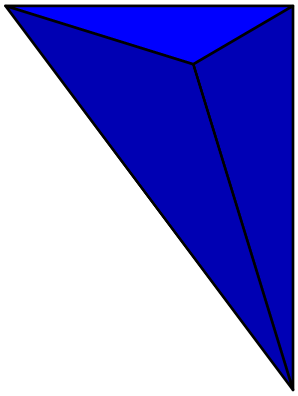


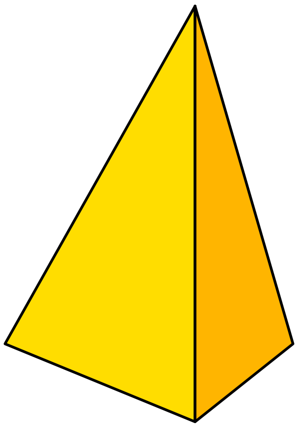


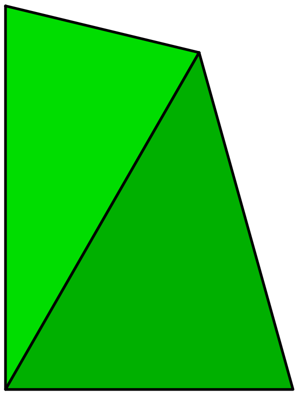


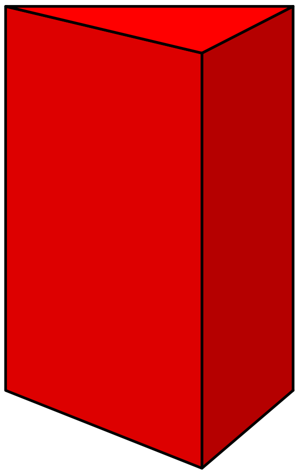


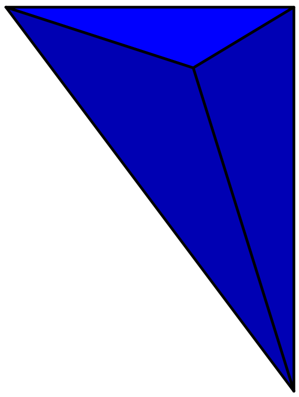


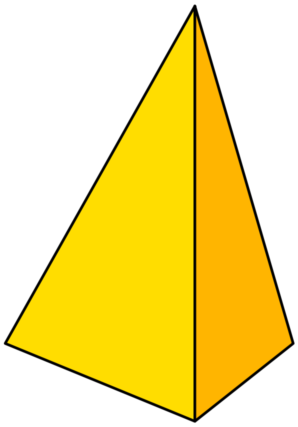


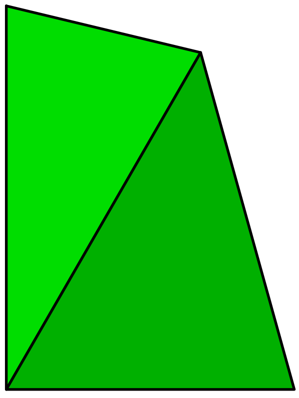


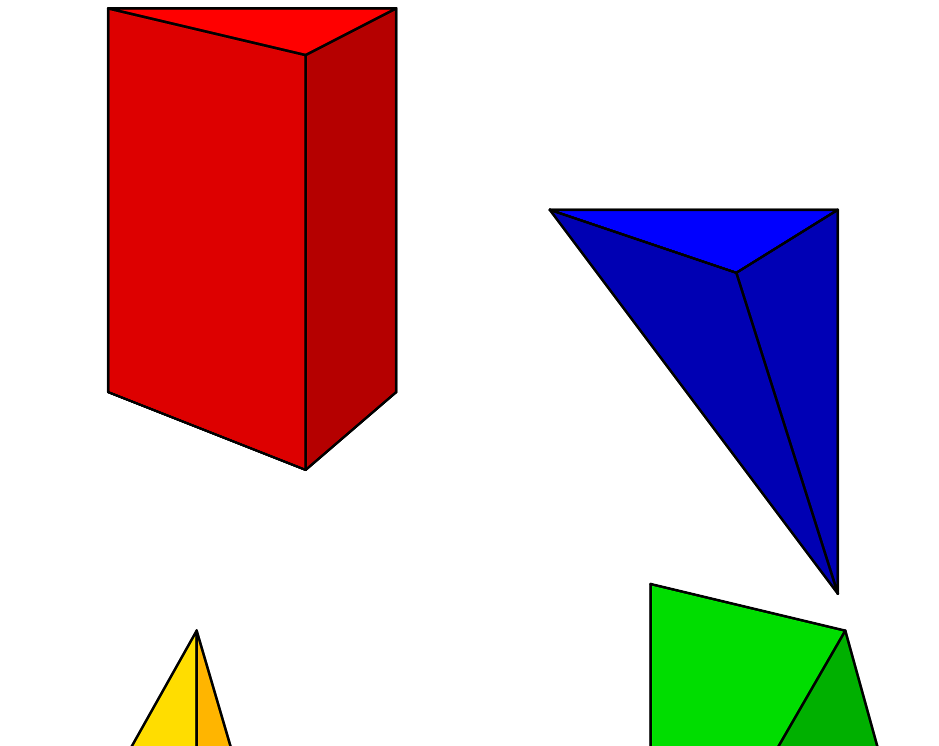


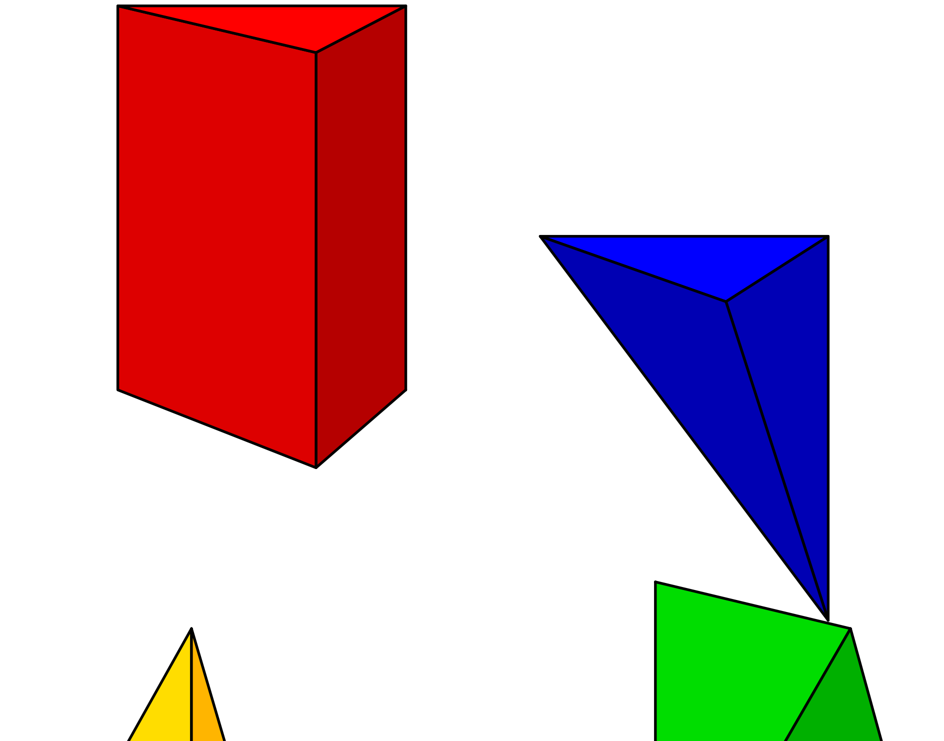


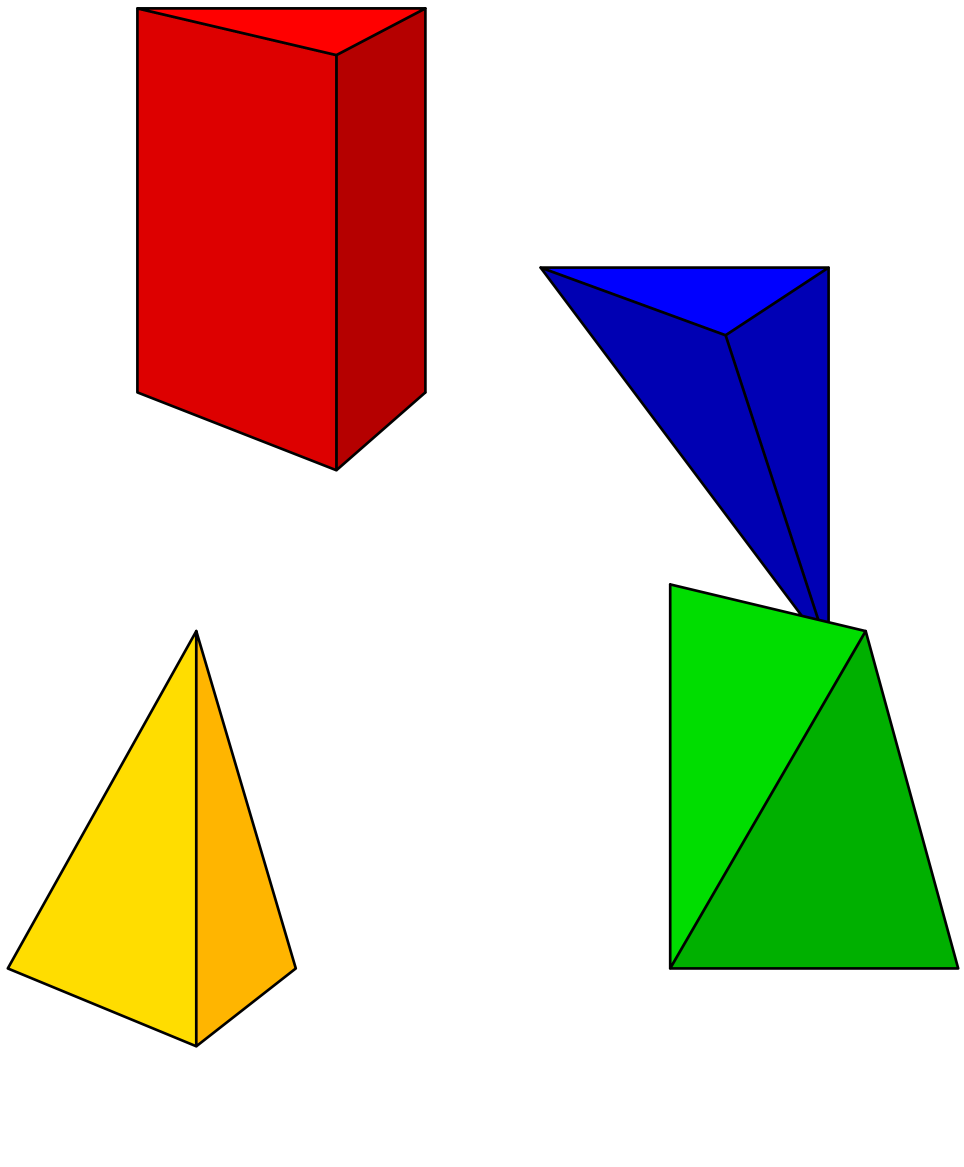


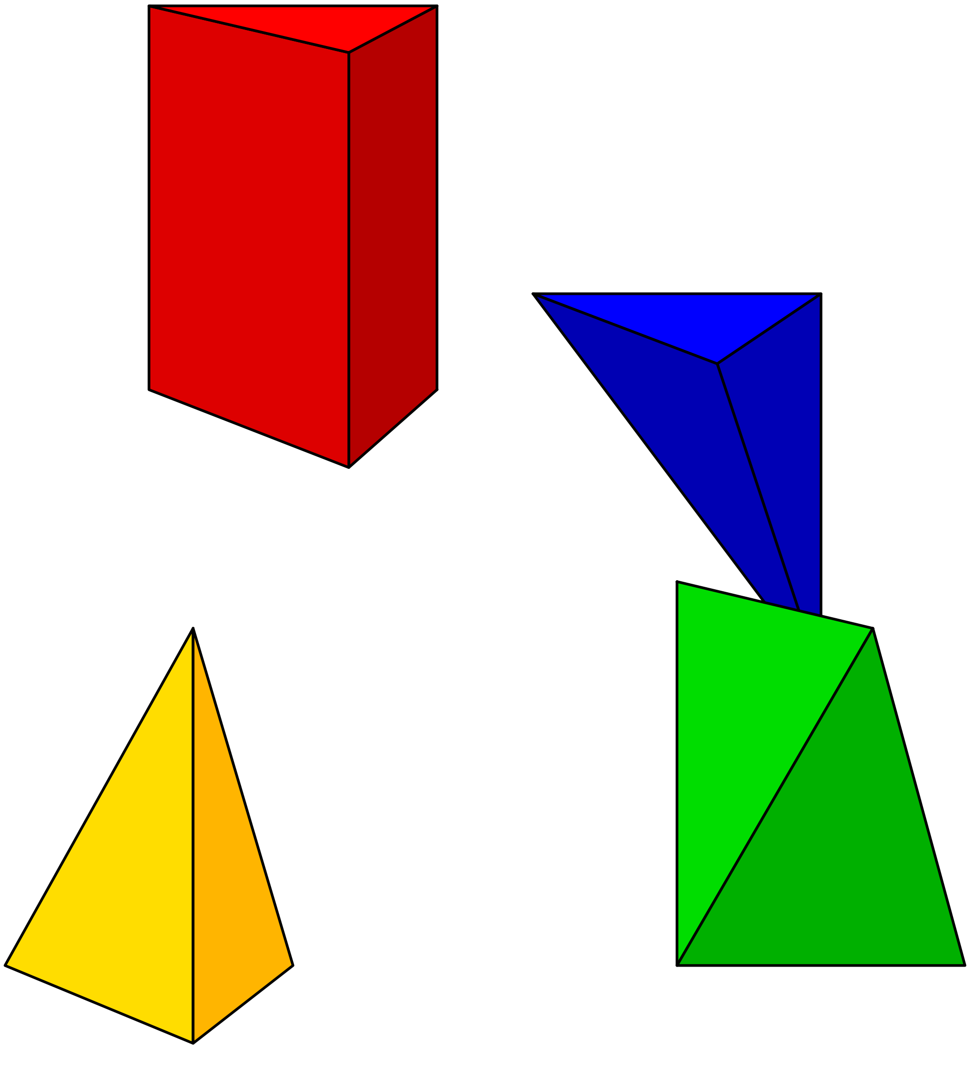


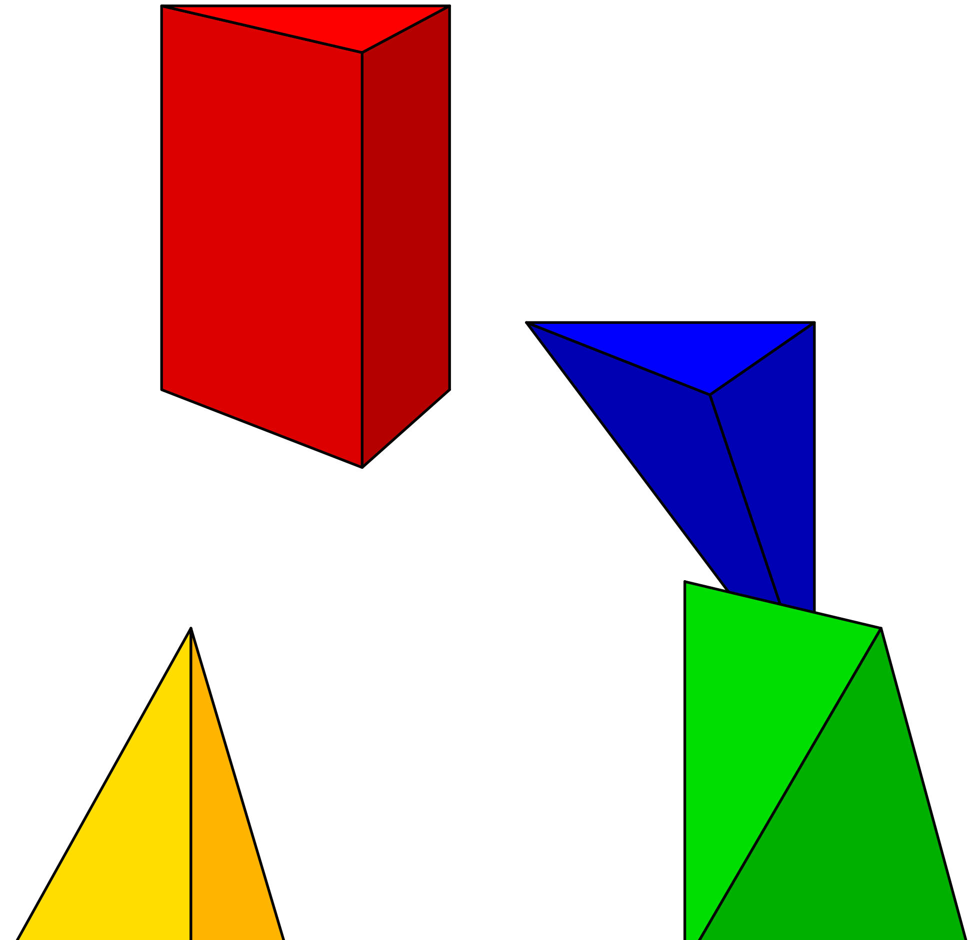


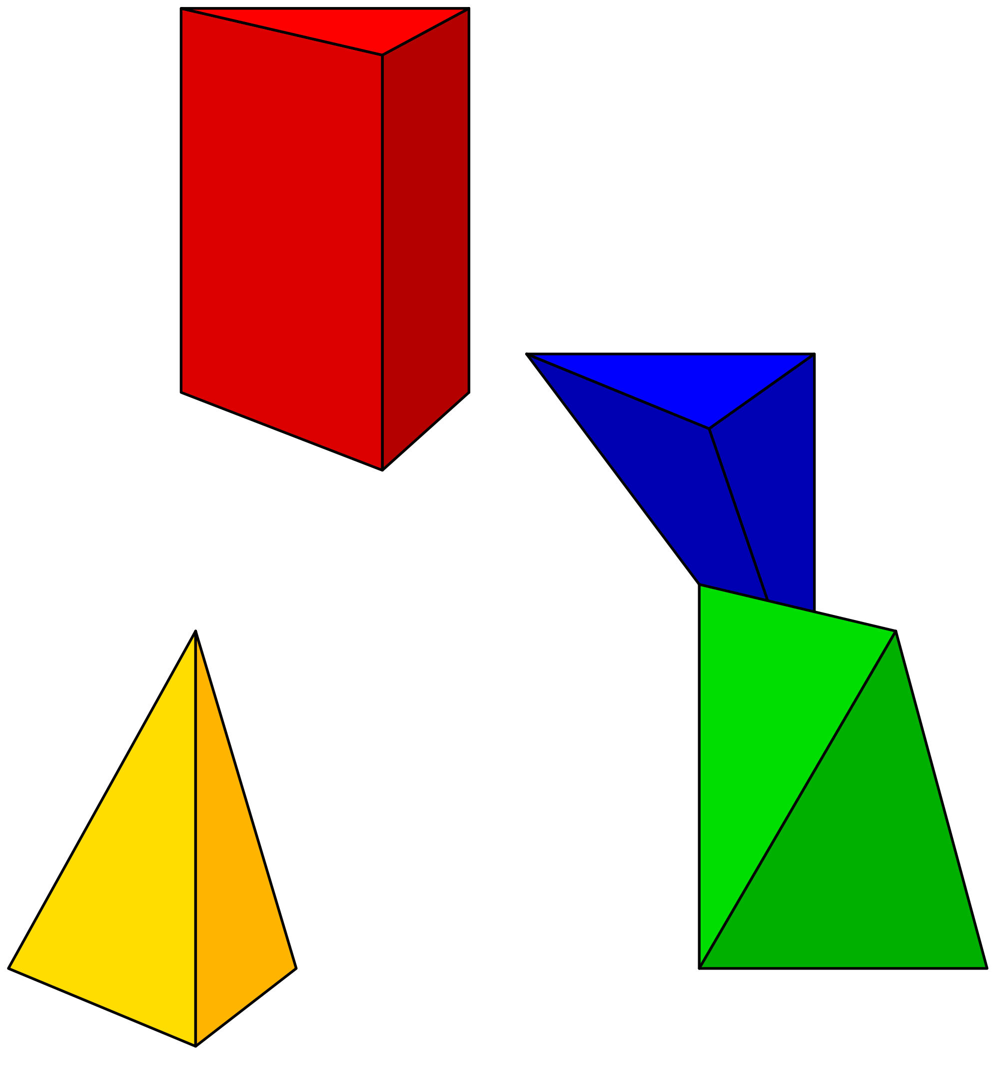


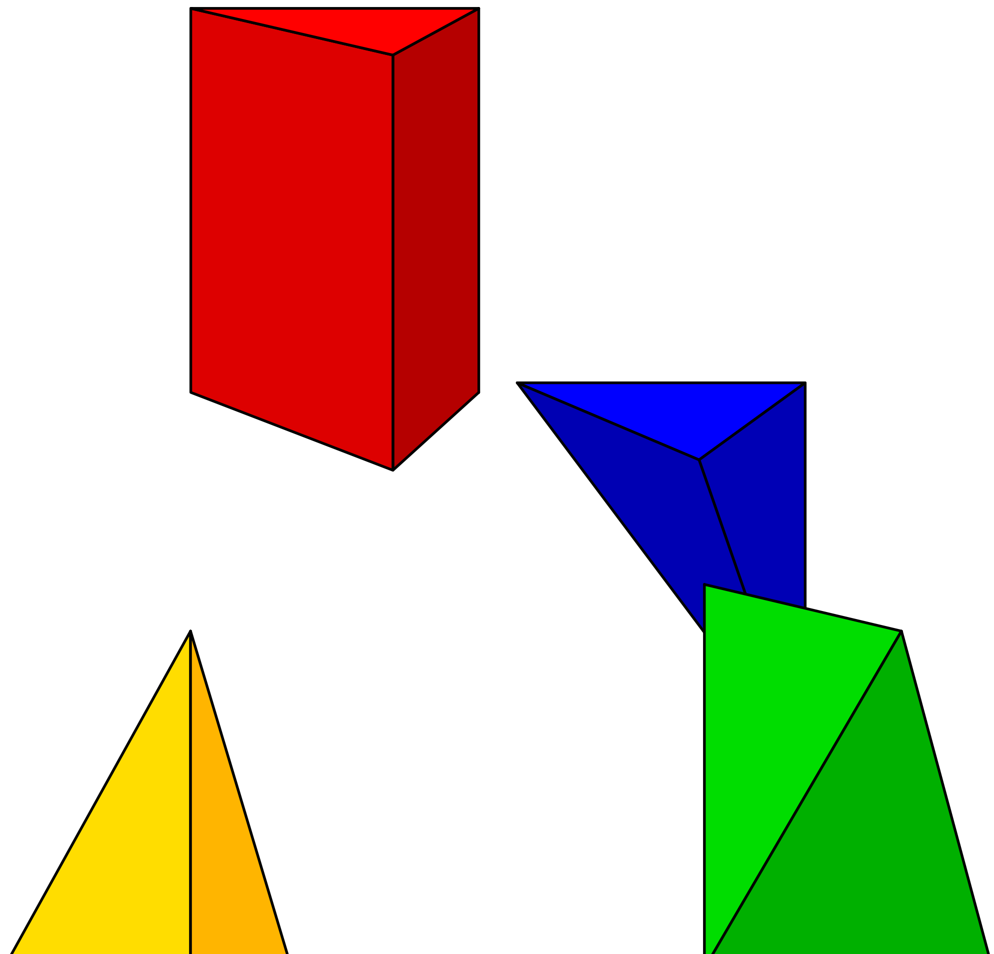


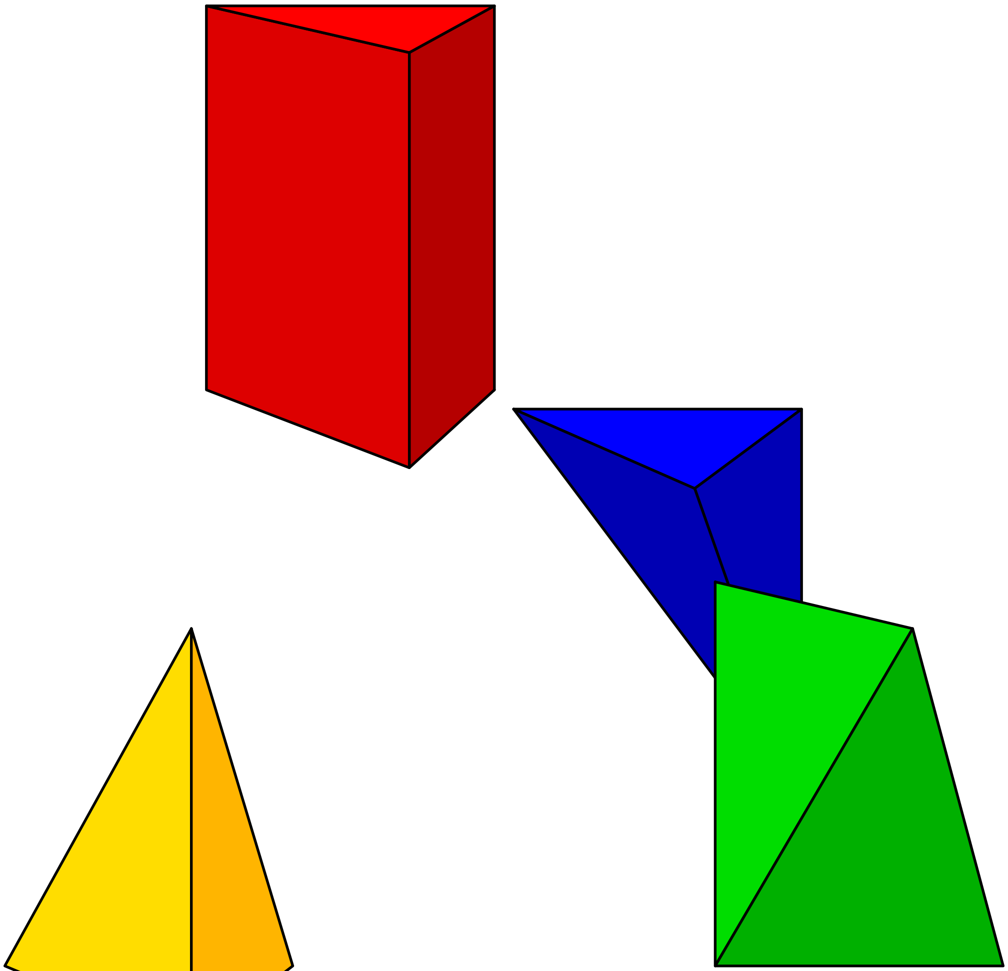


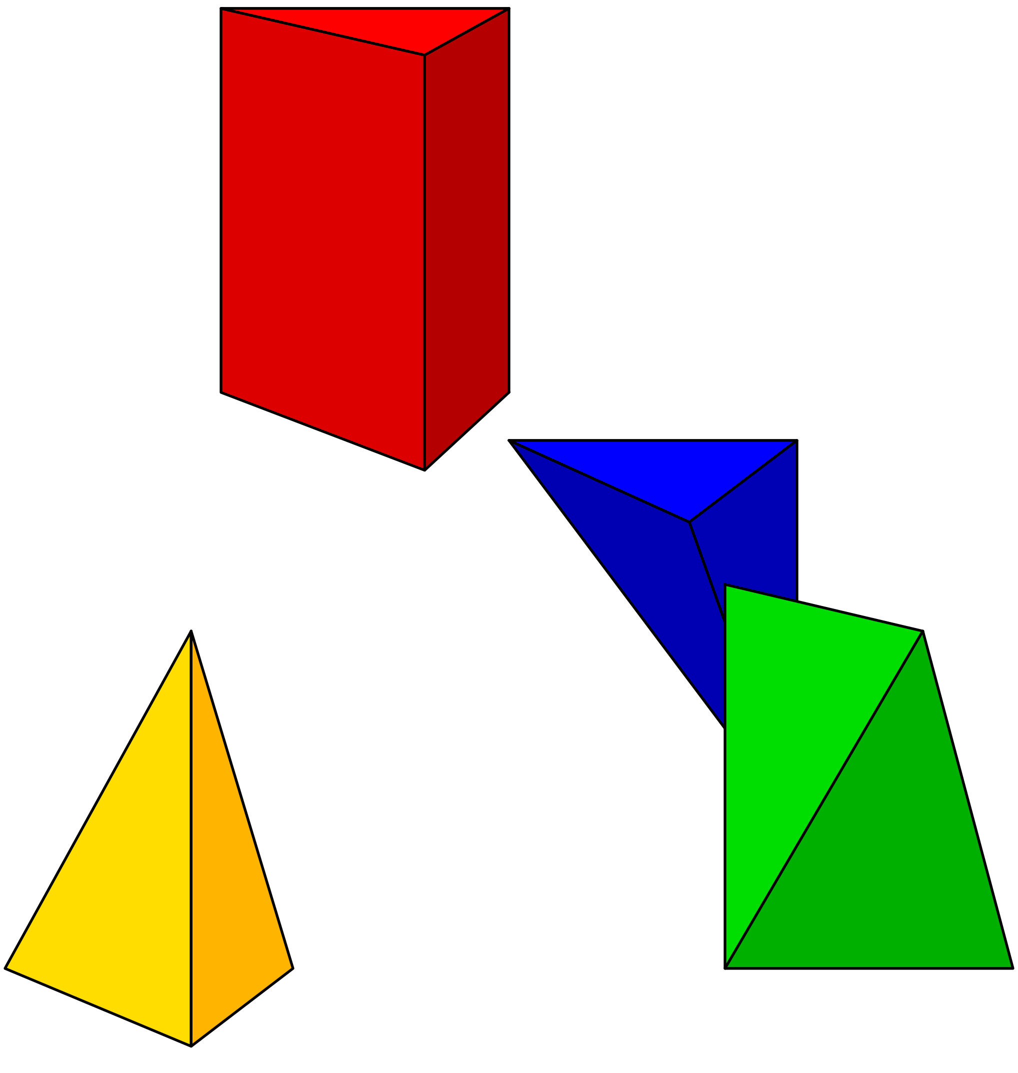


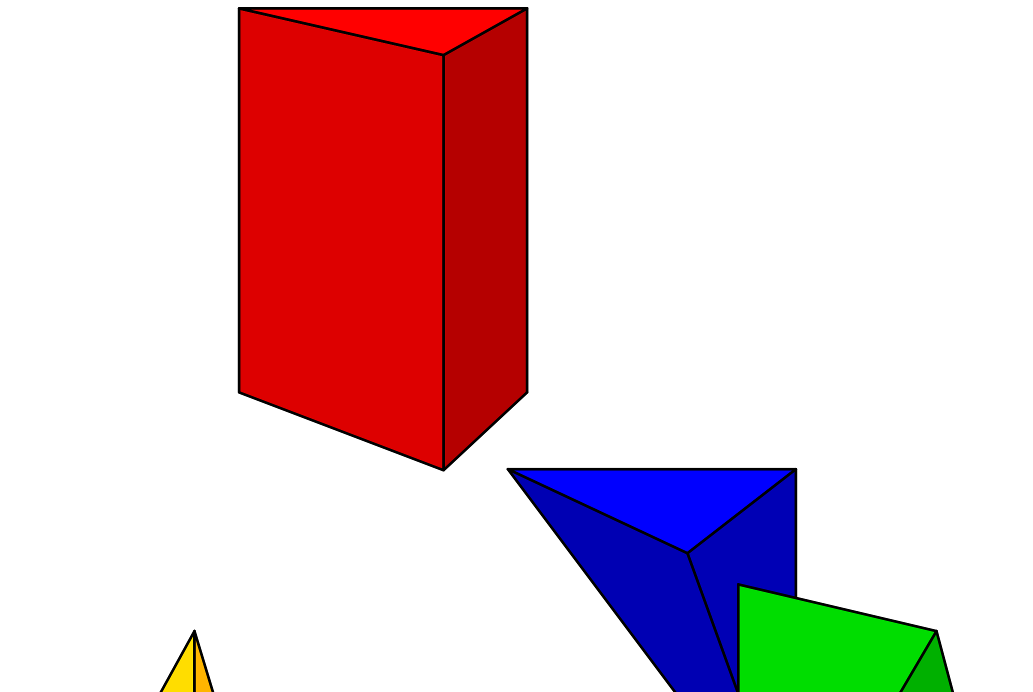


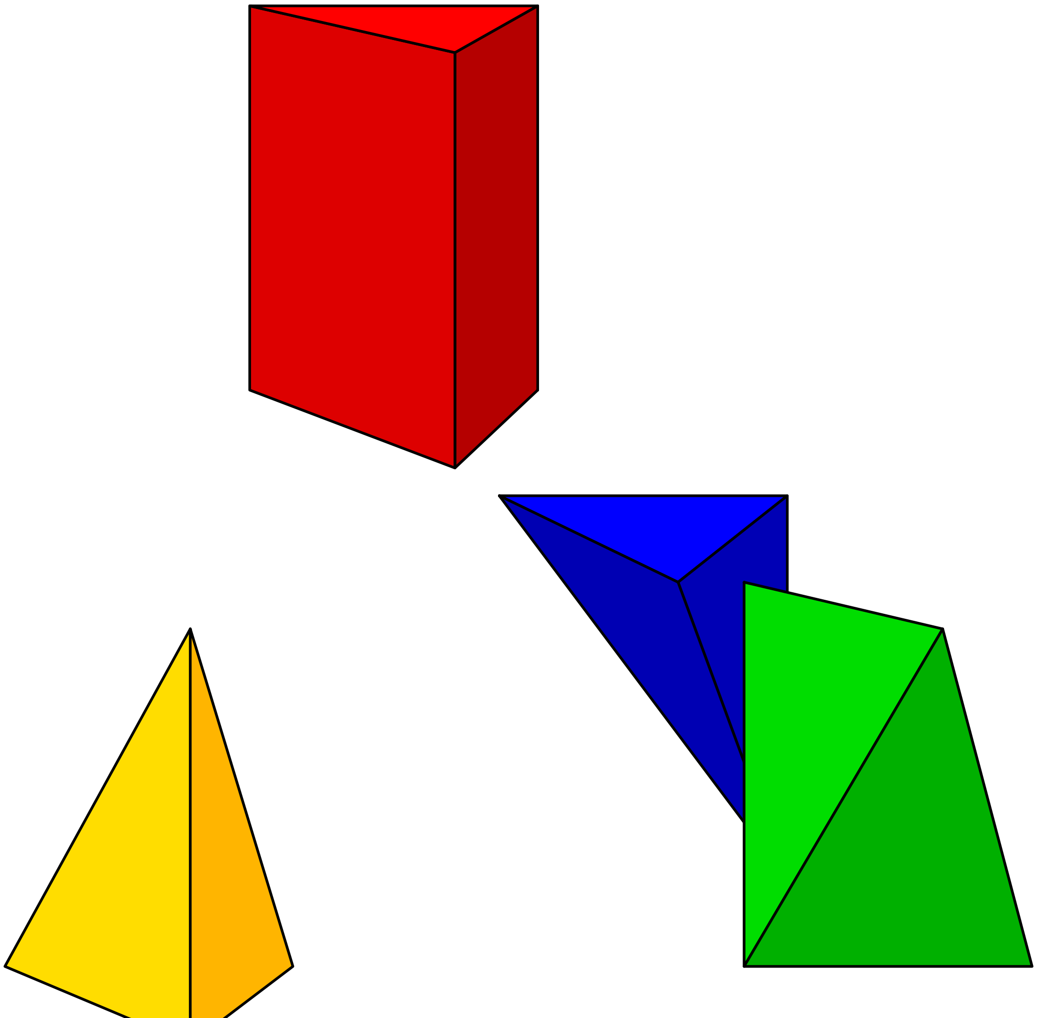


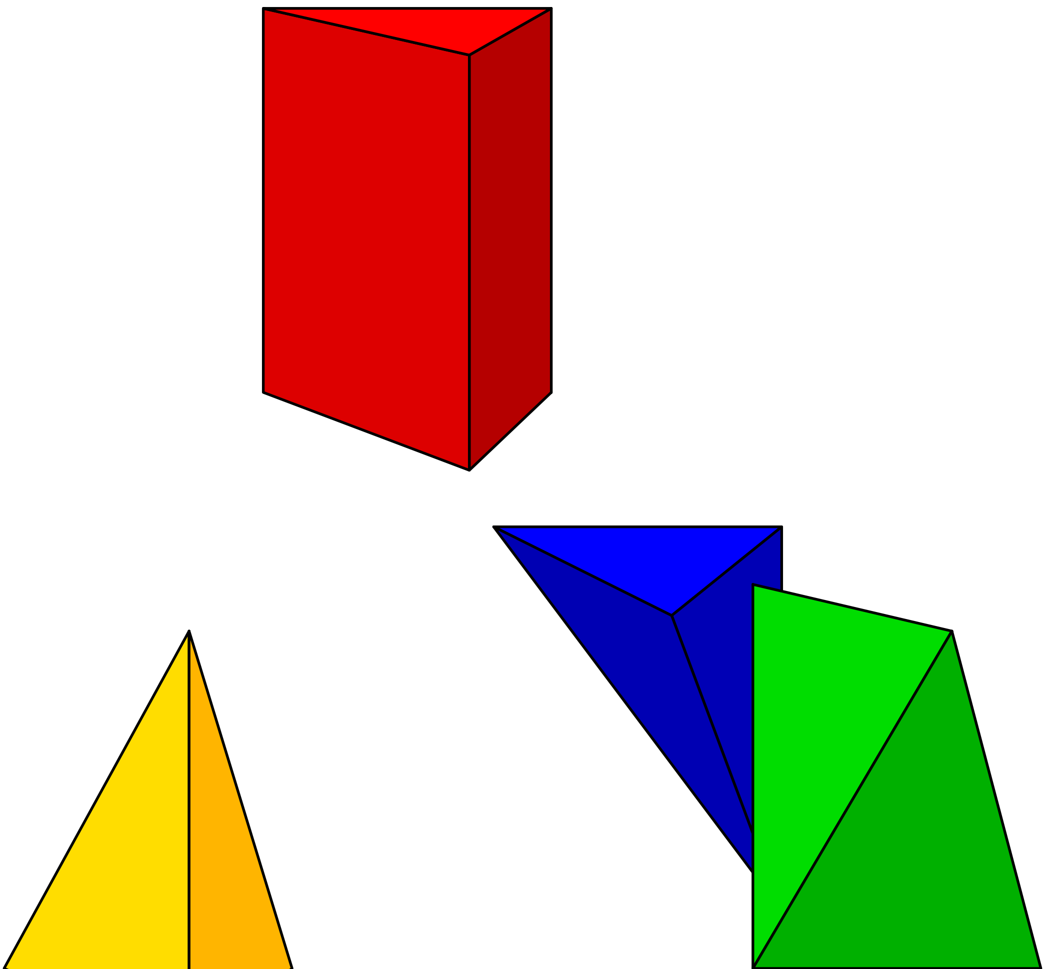


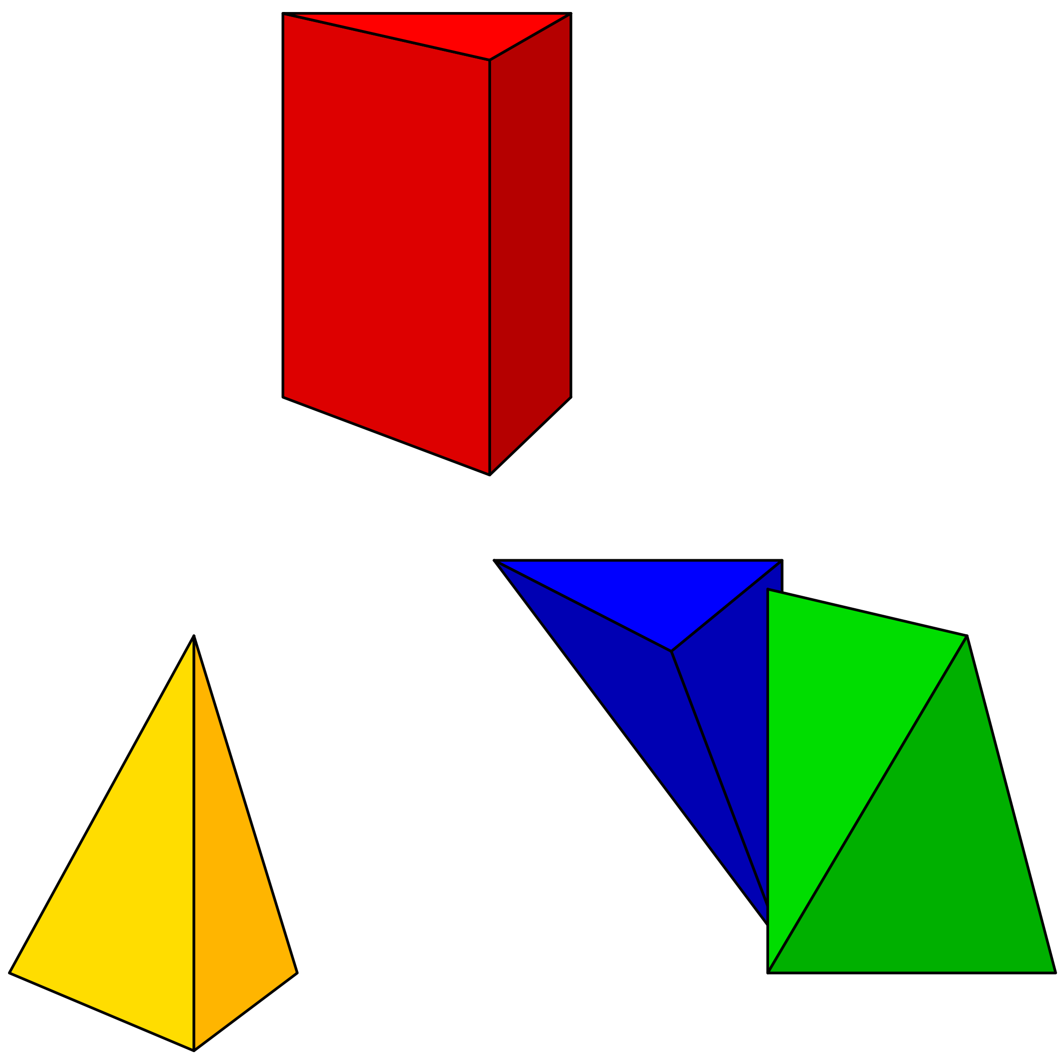


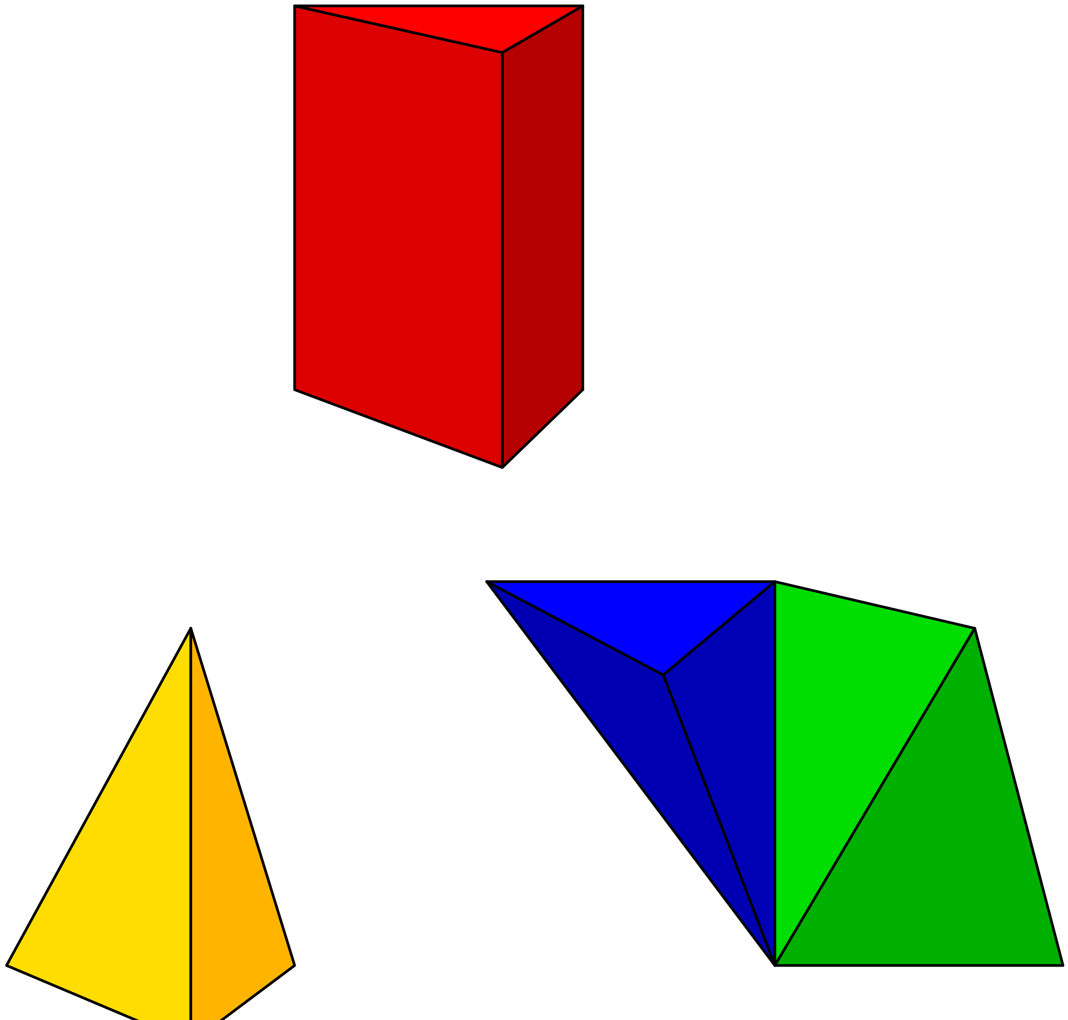


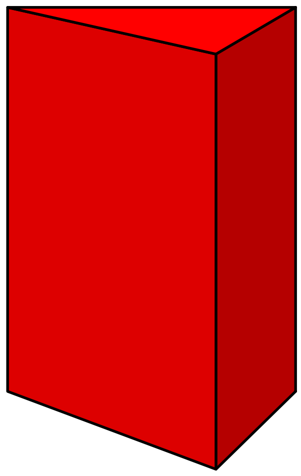


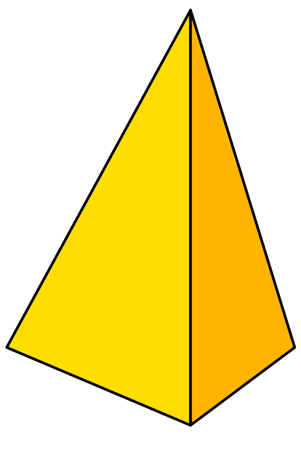


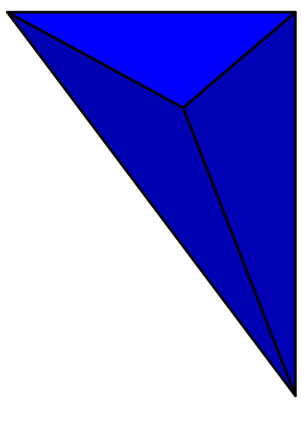


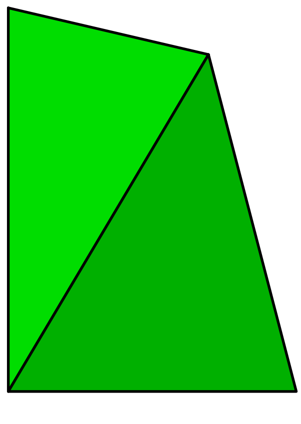


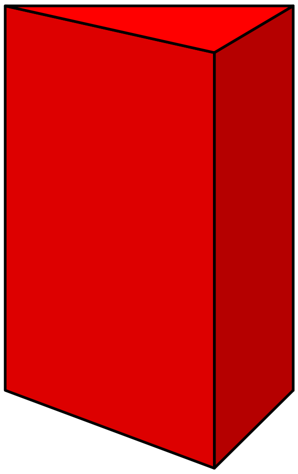


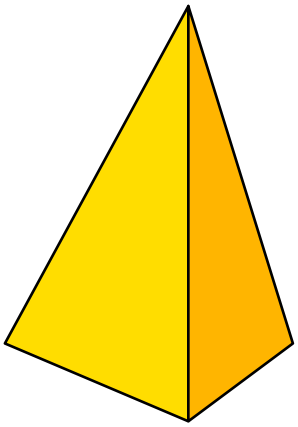


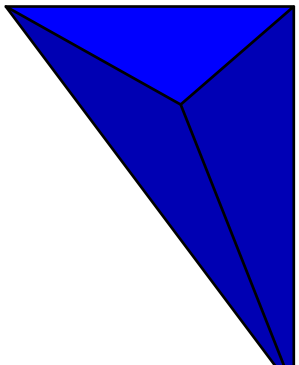


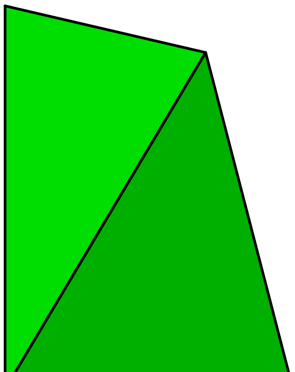


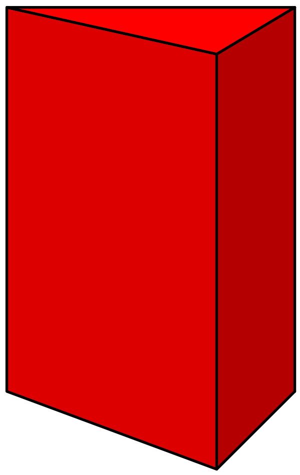


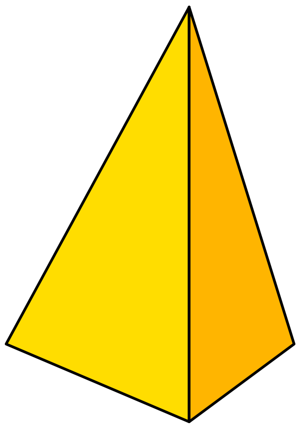


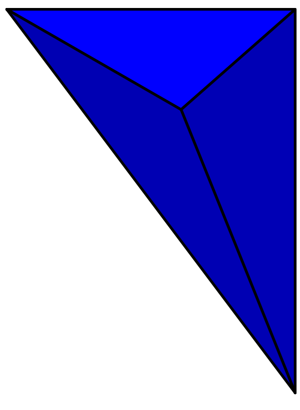


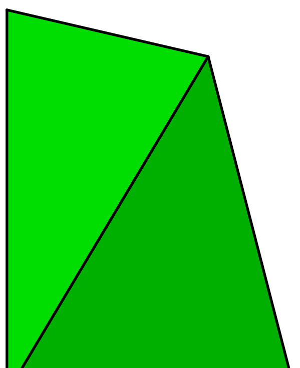


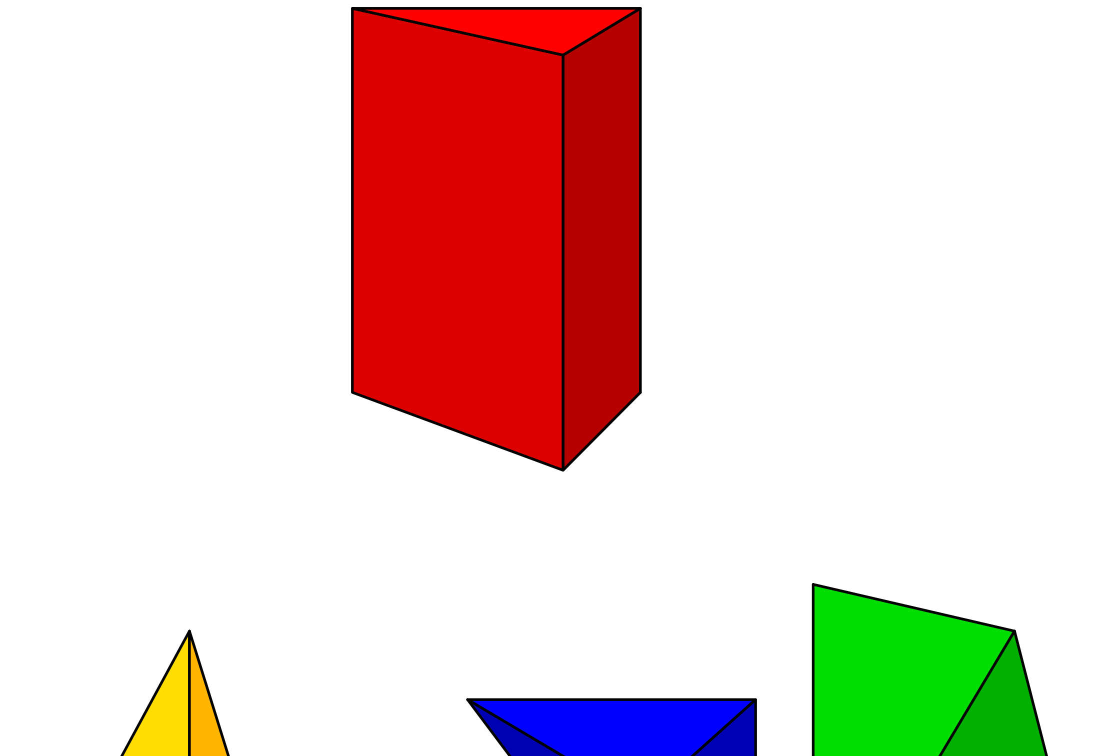


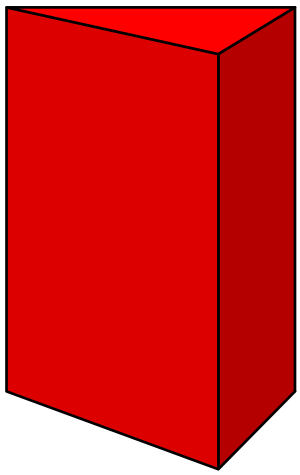


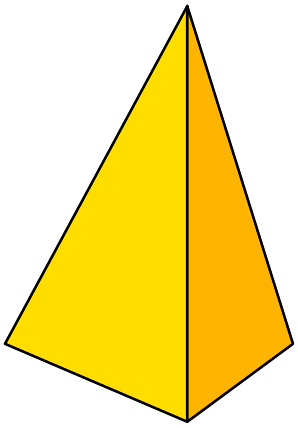


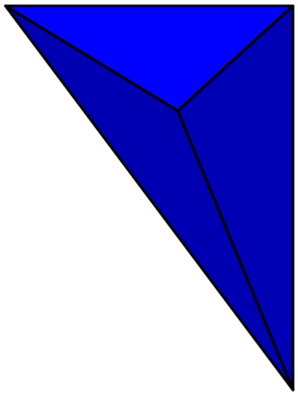


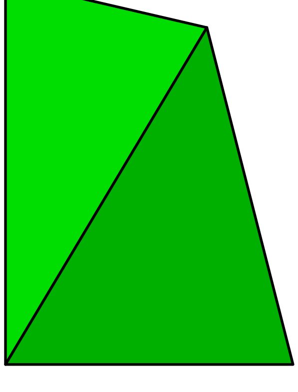


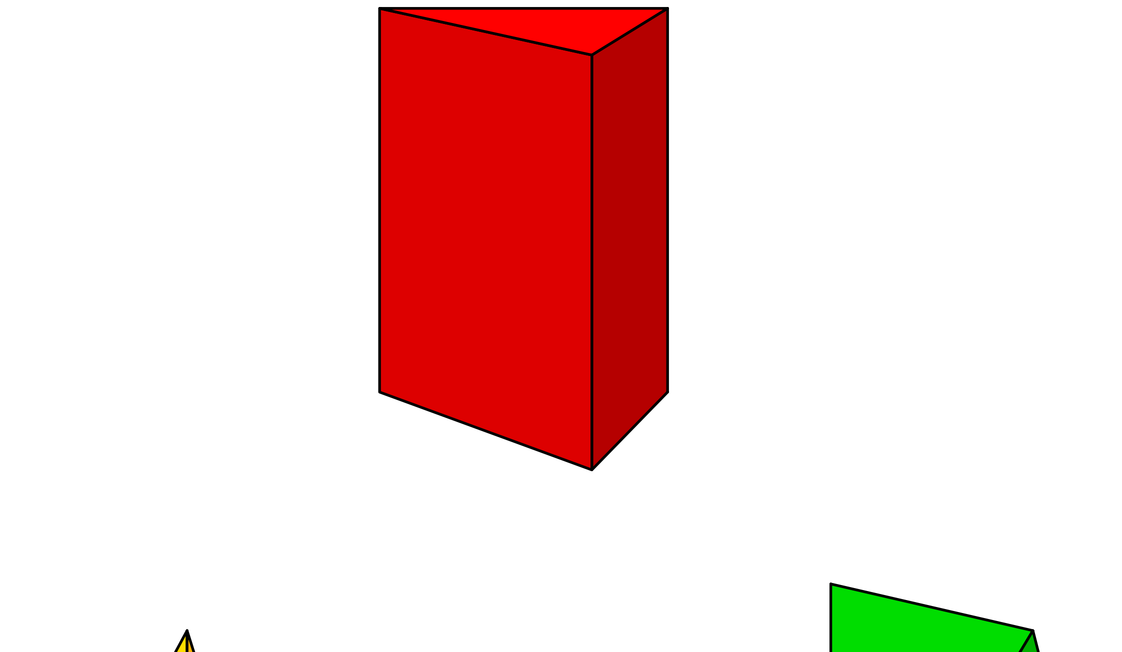


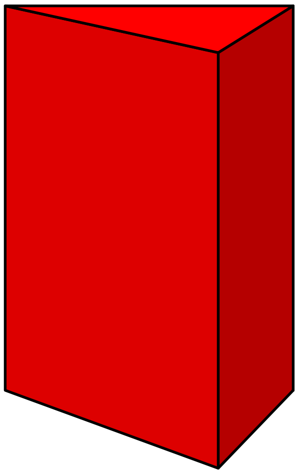


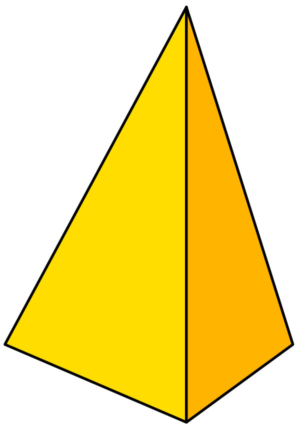


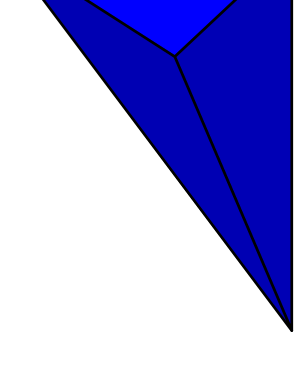


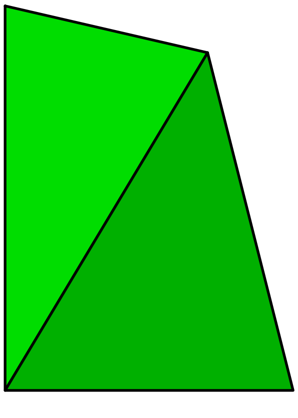


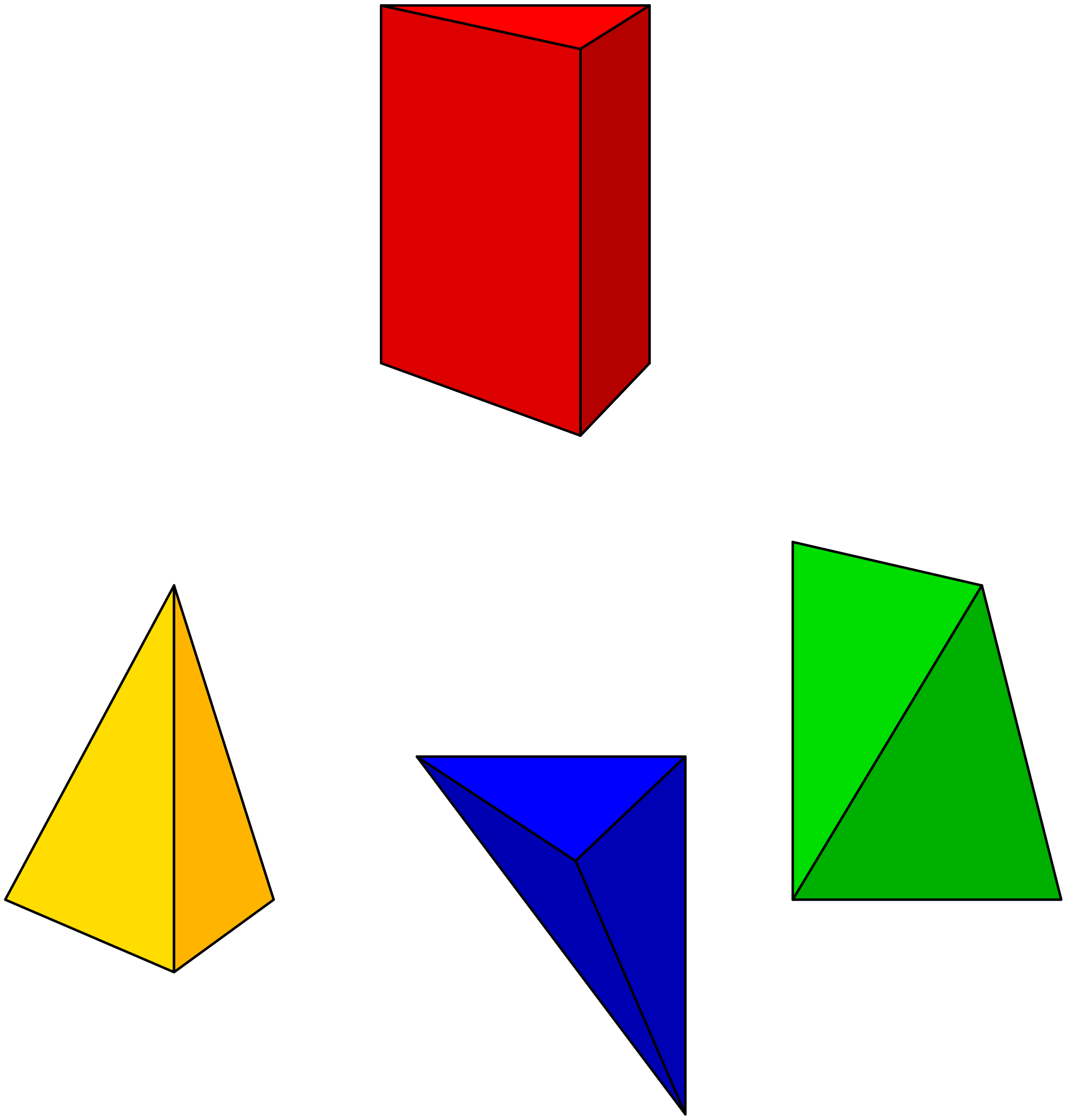


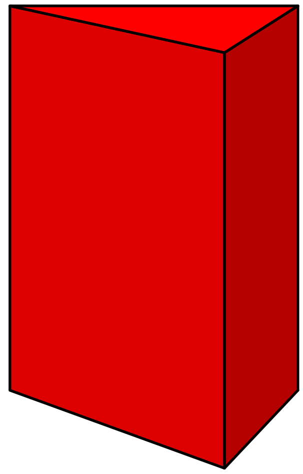


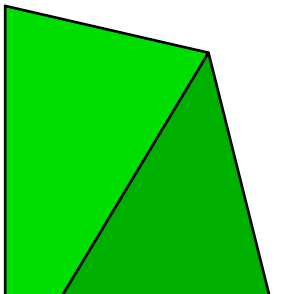


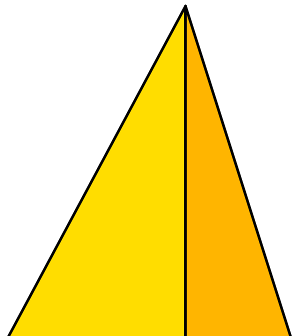


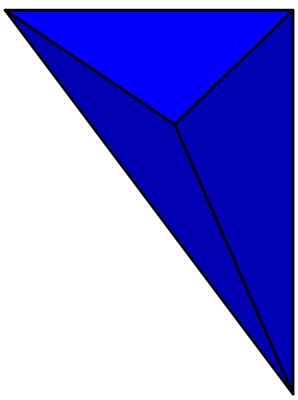


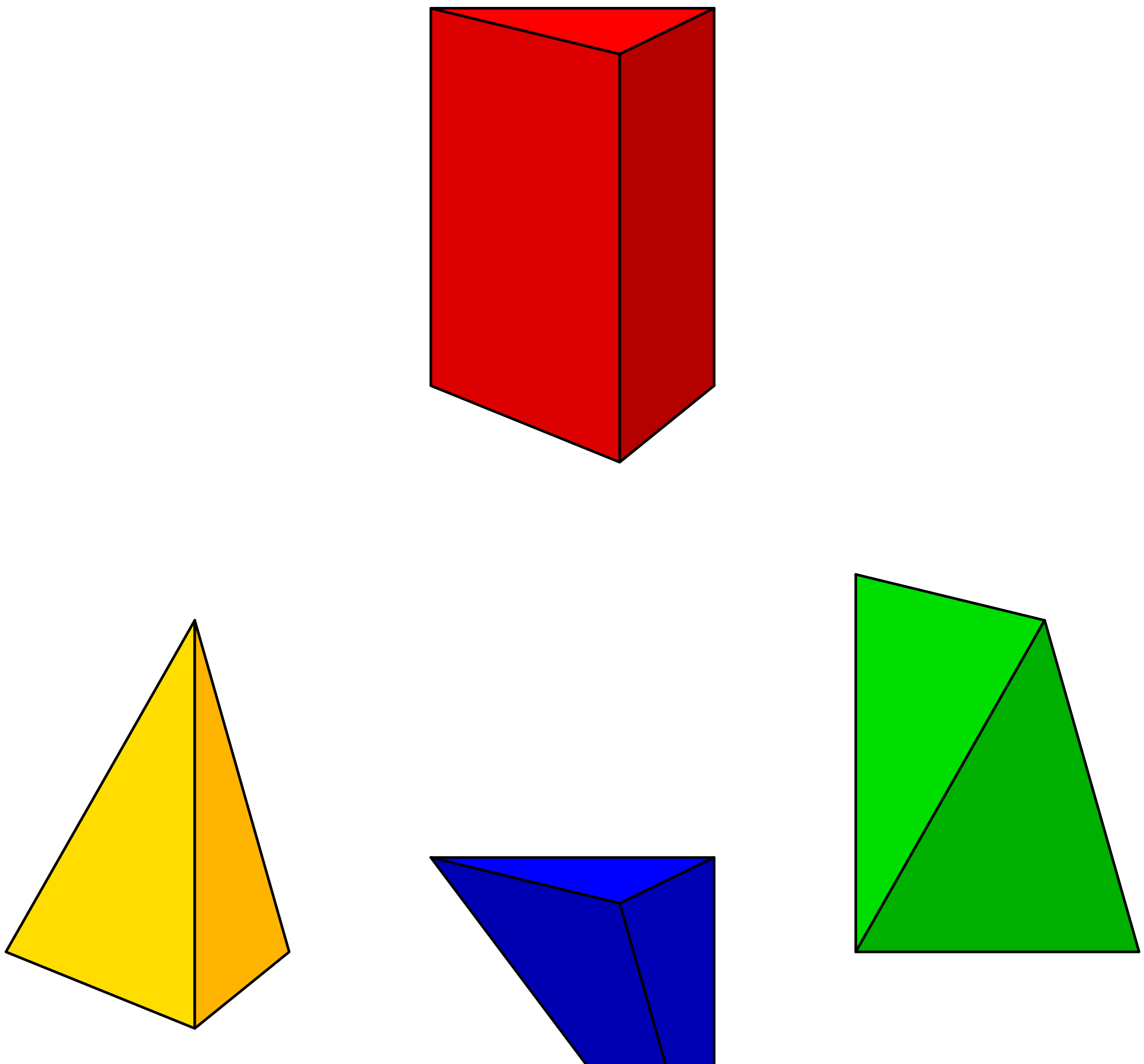


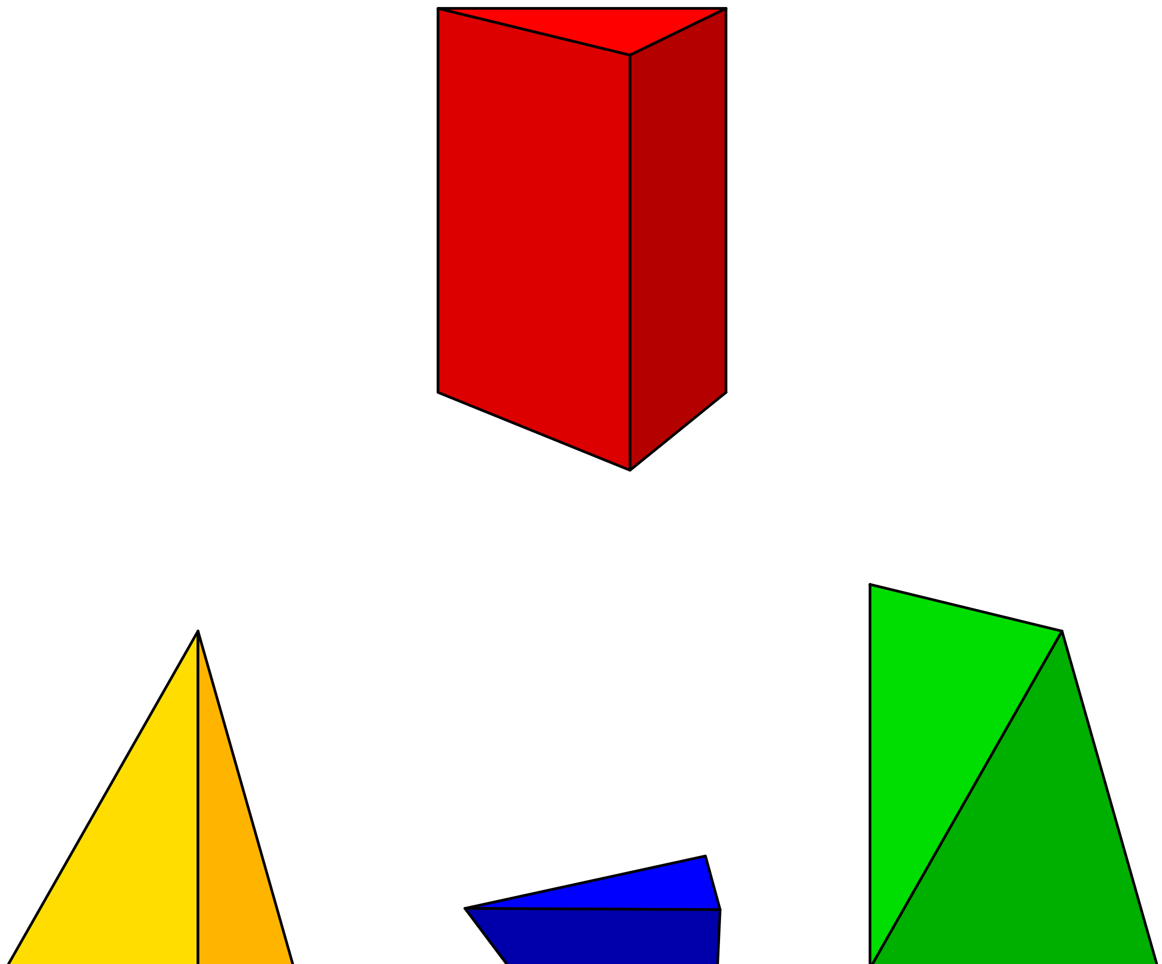


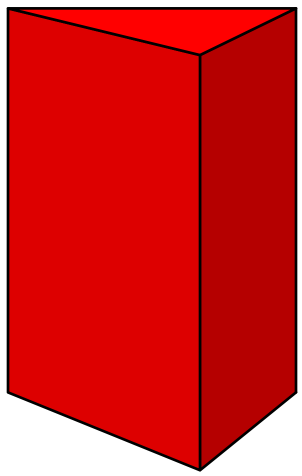


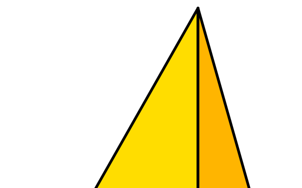


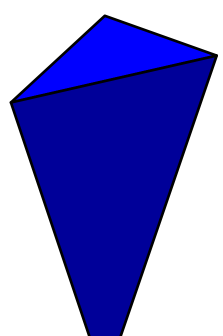


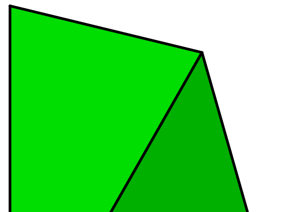


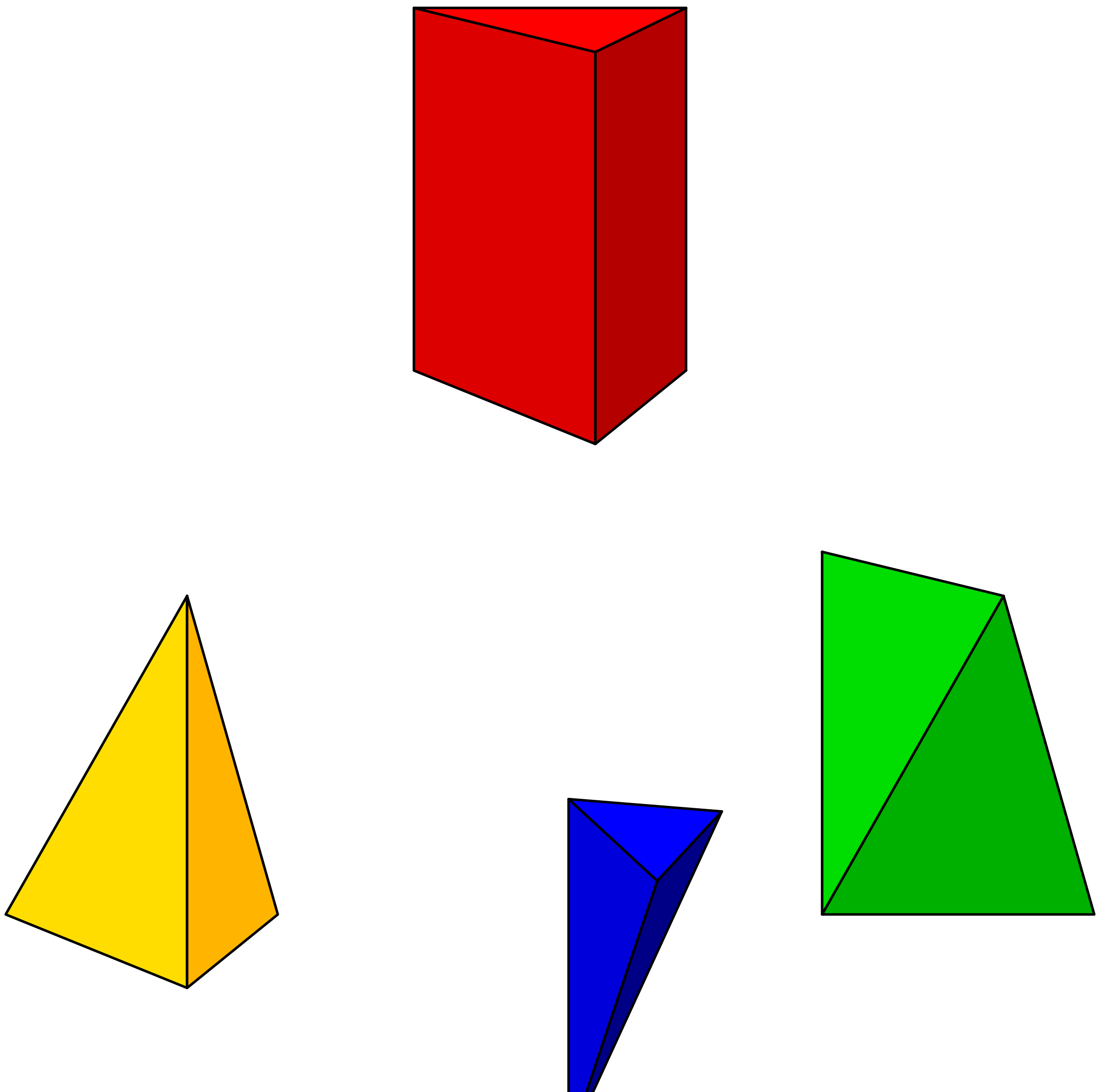


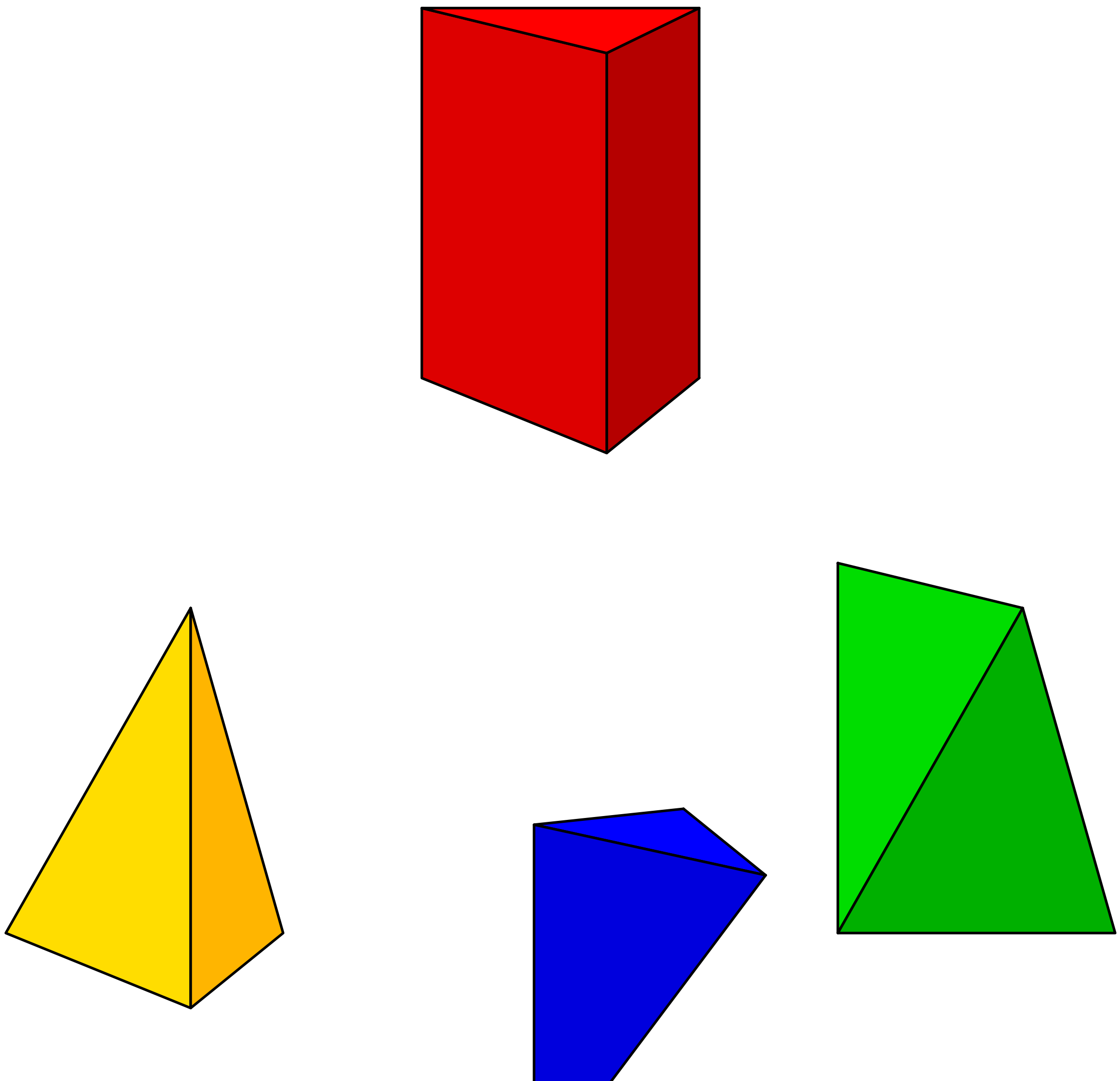


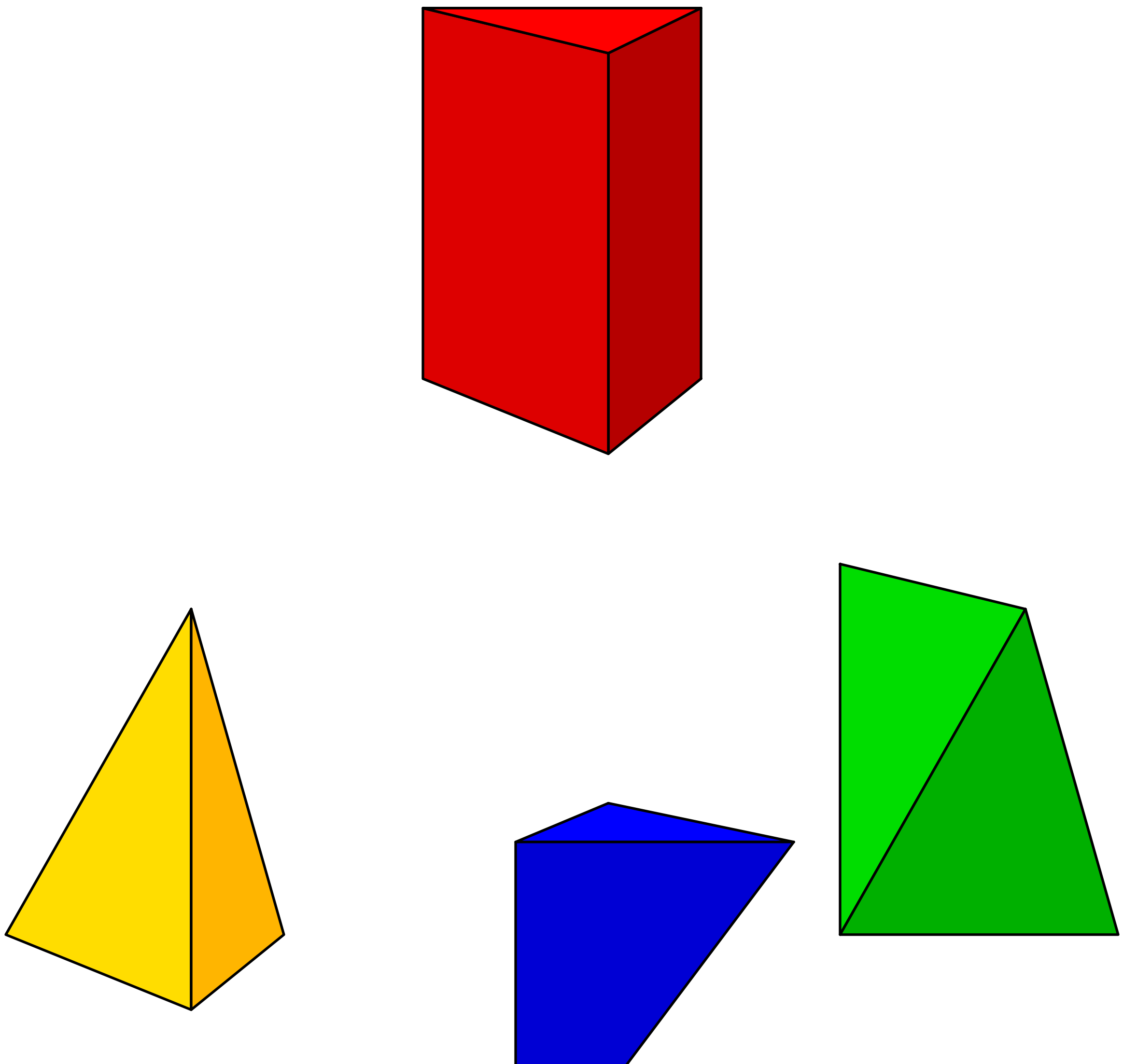


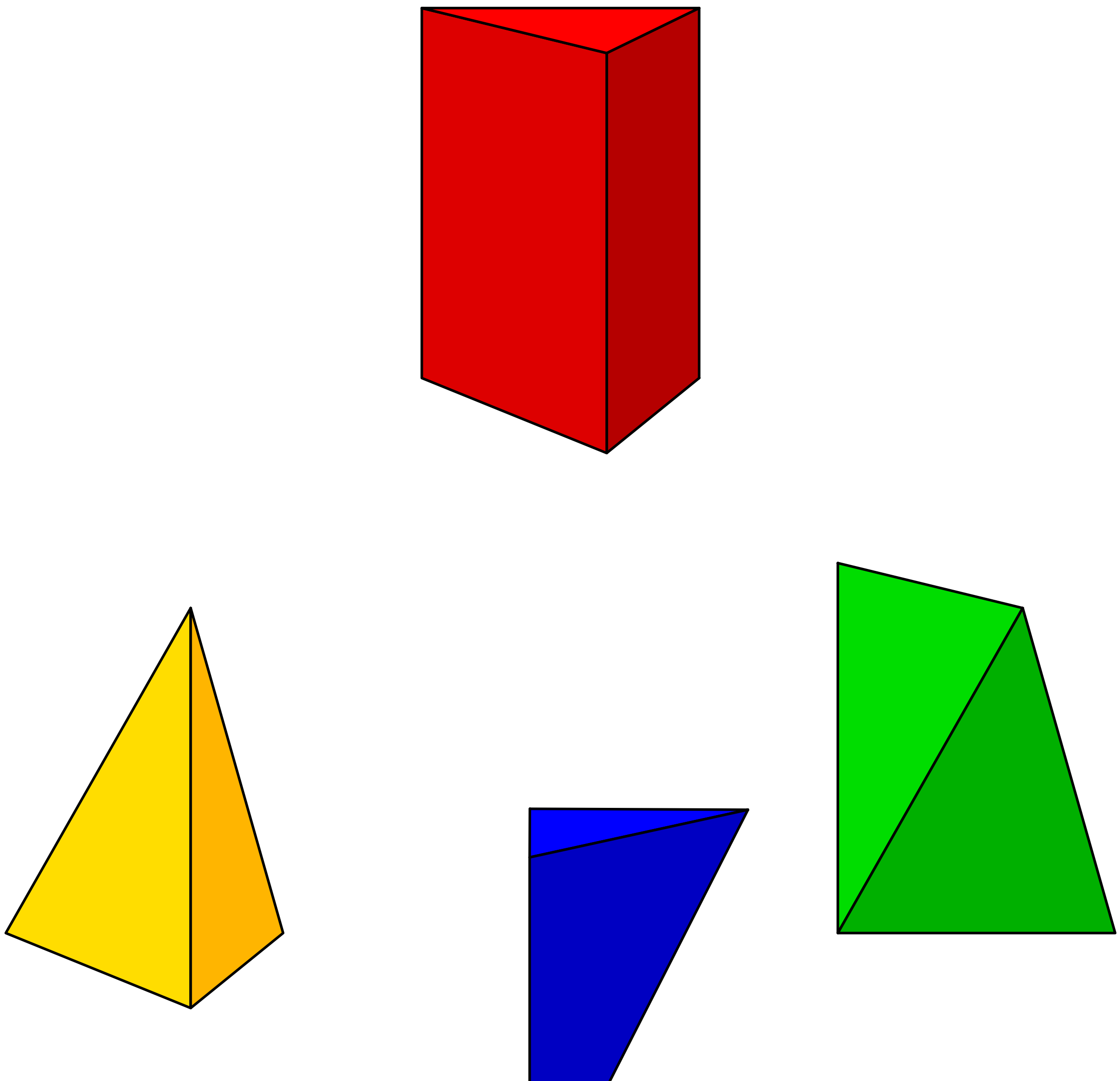


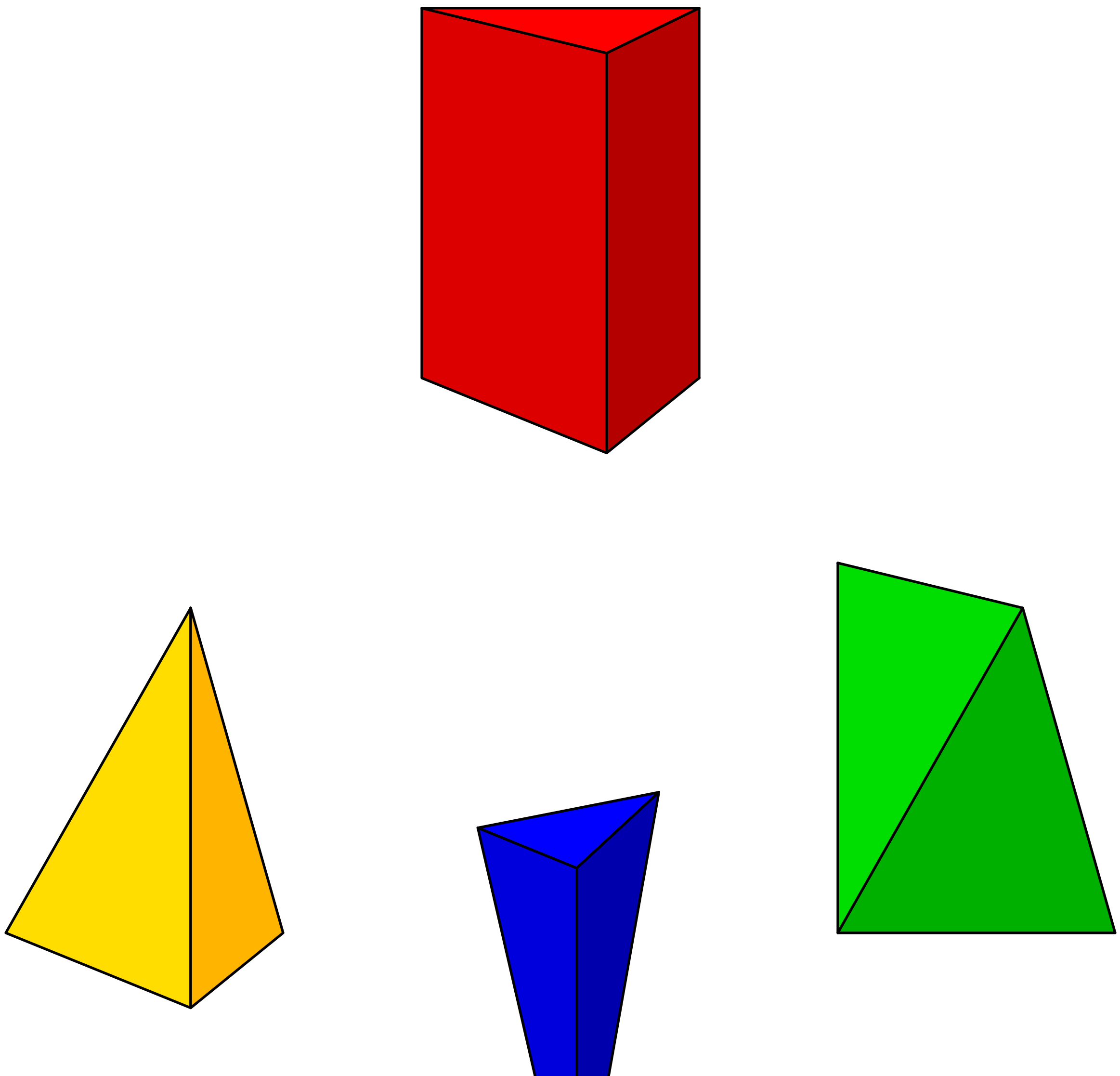


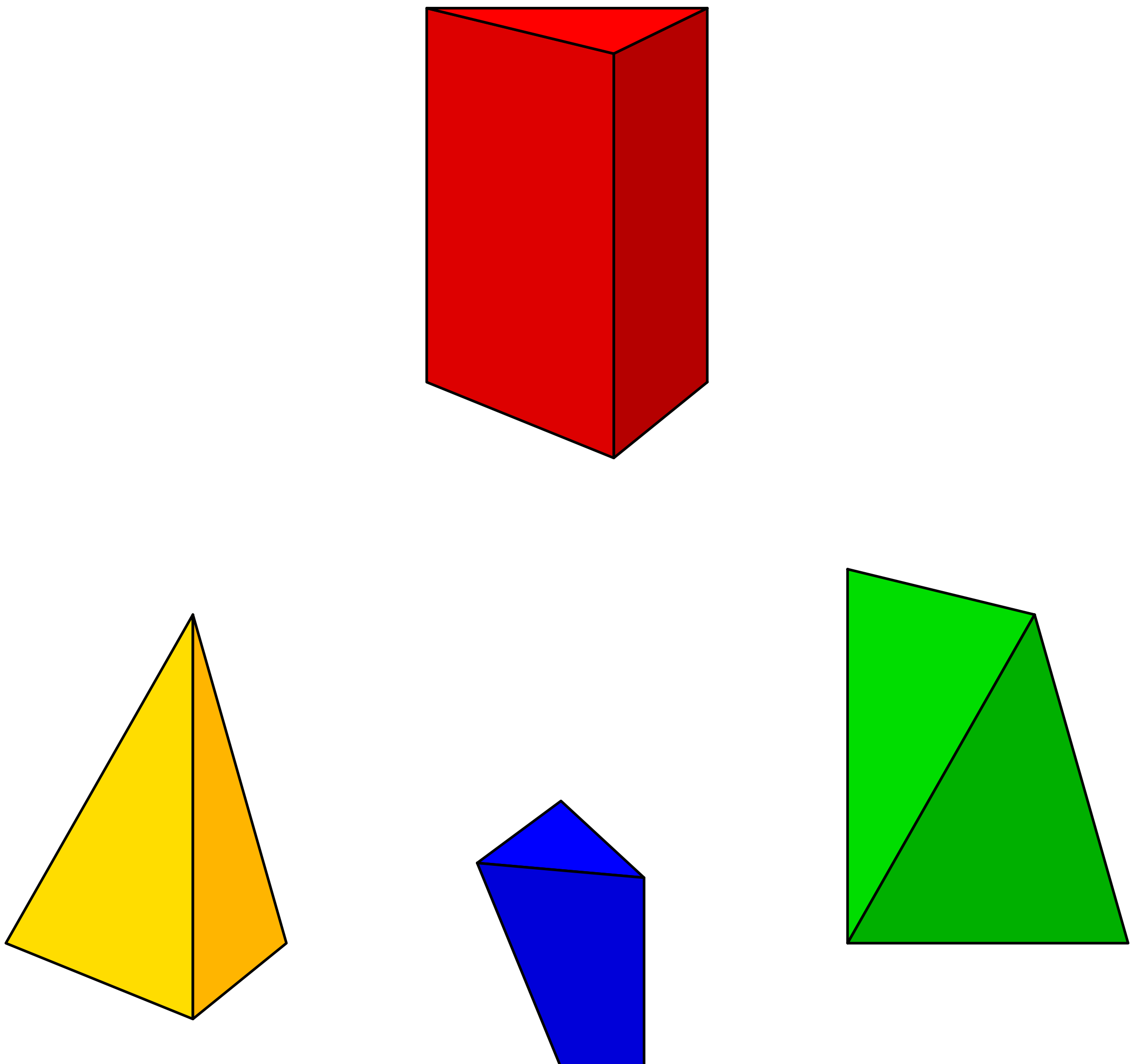


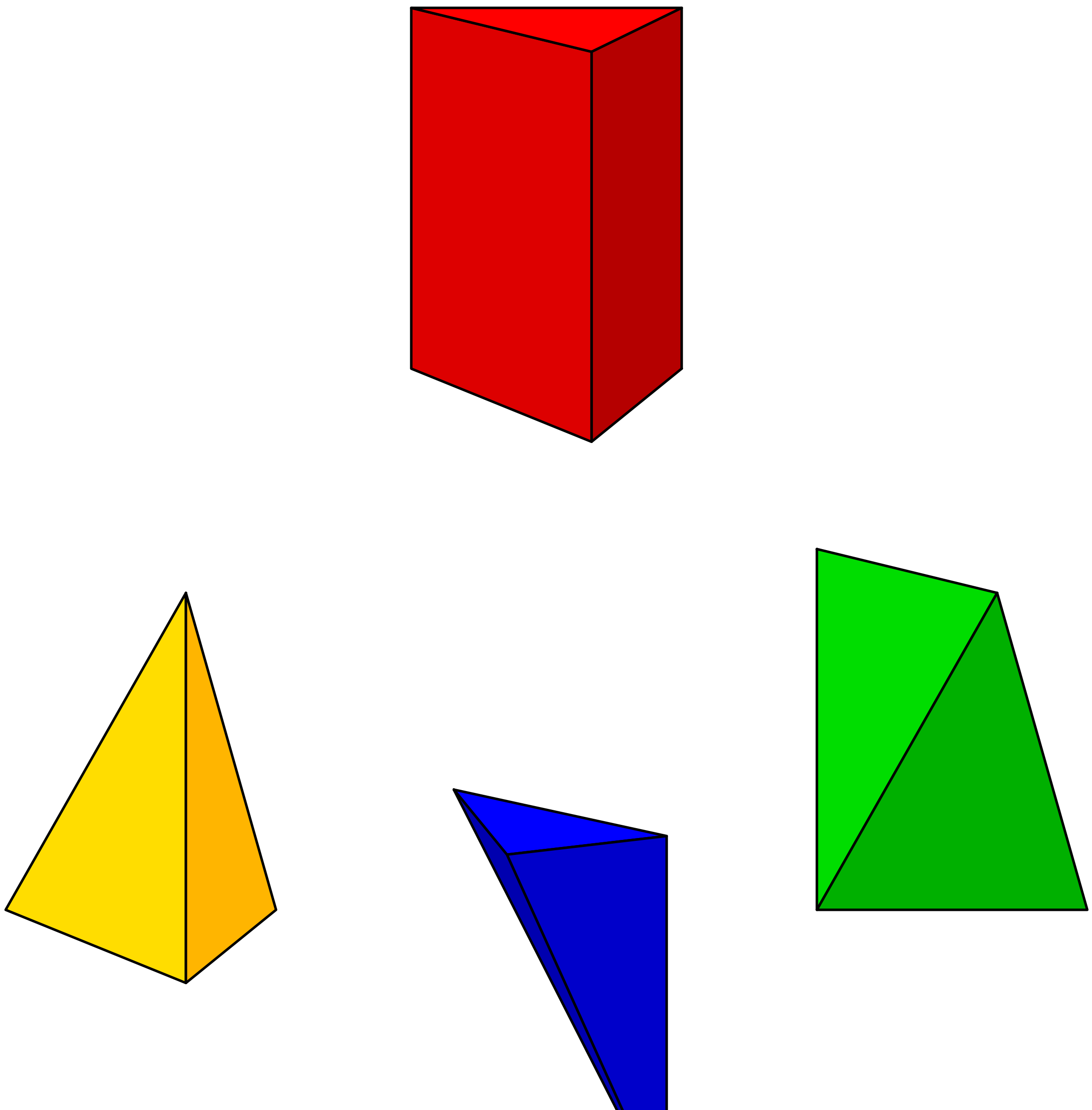


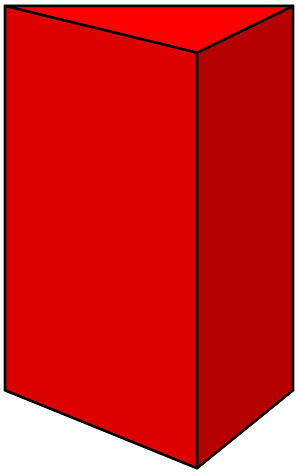


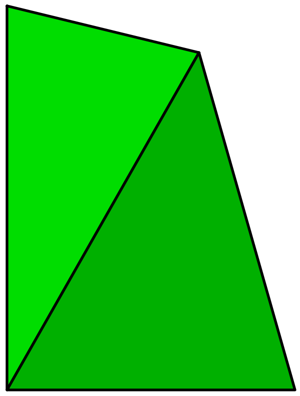


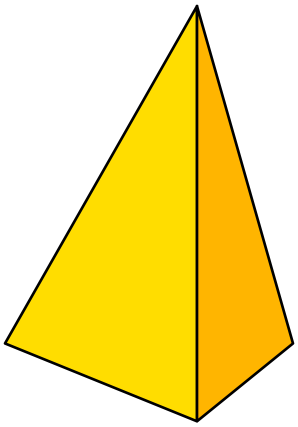


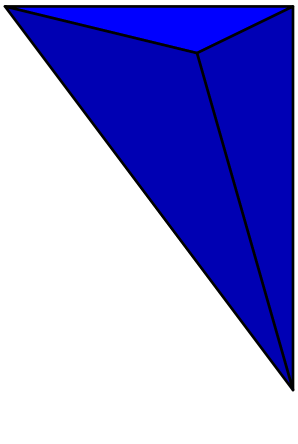












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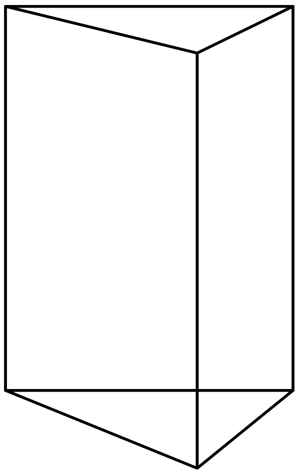

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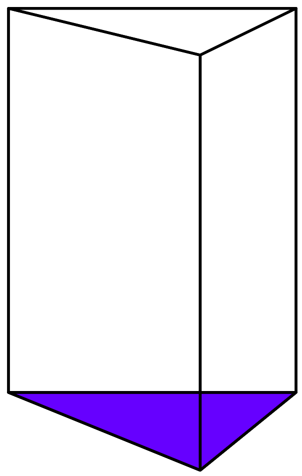

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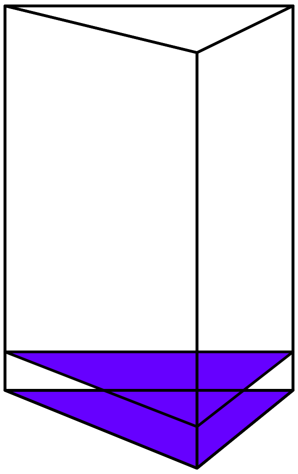

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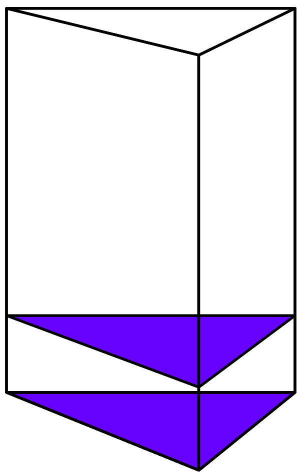

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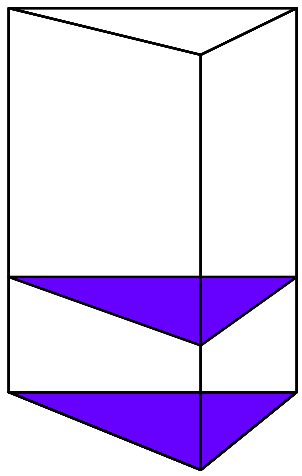

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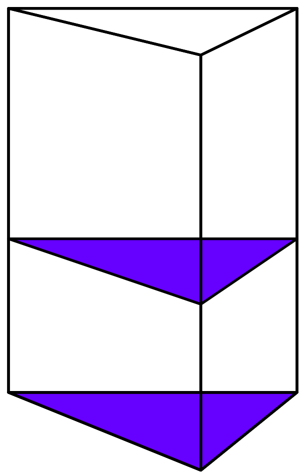

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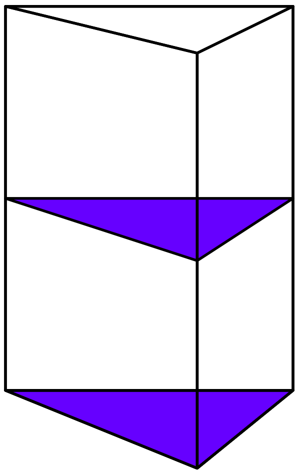

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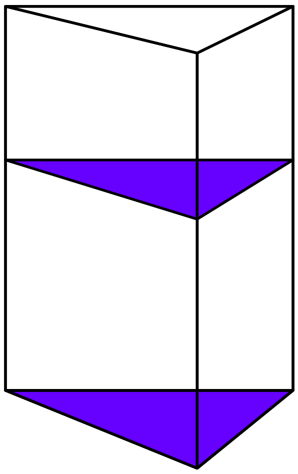

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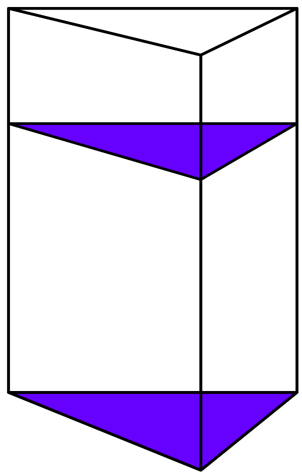

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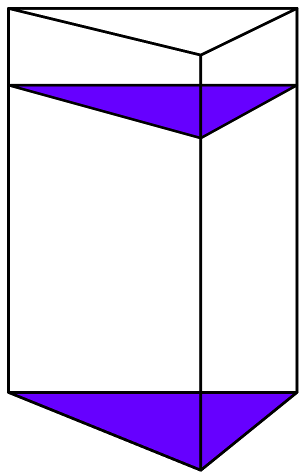

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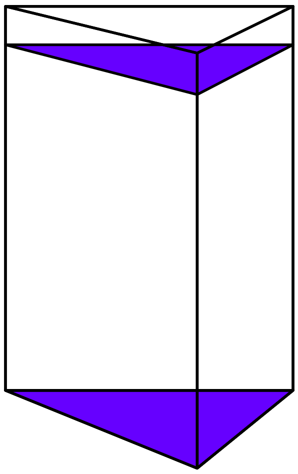

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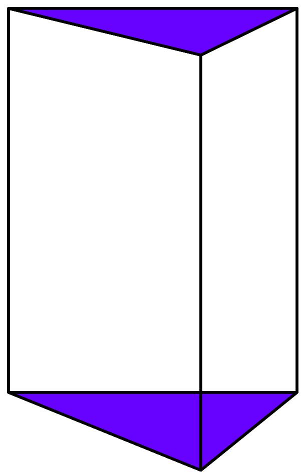

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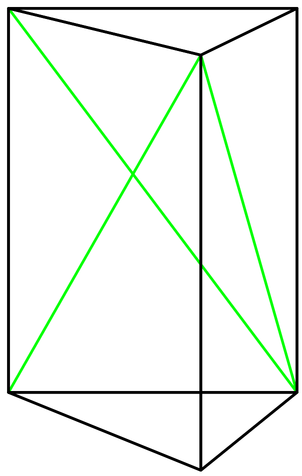

Connect the diagonal of each parallelogram

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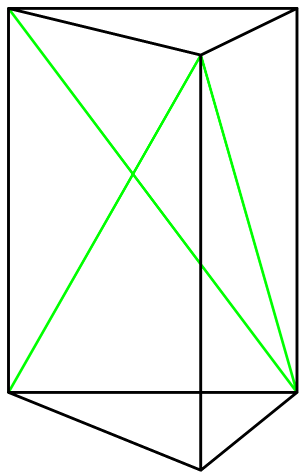

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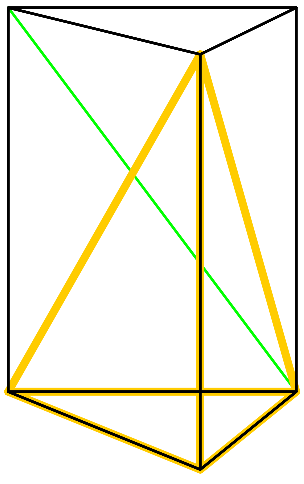

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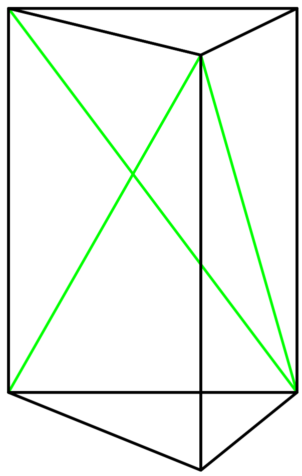

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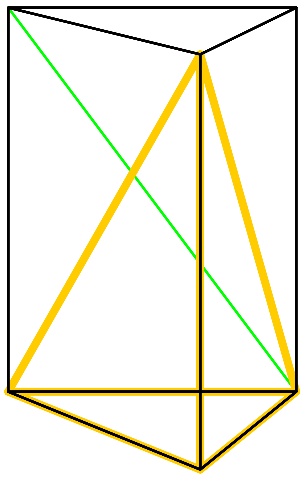

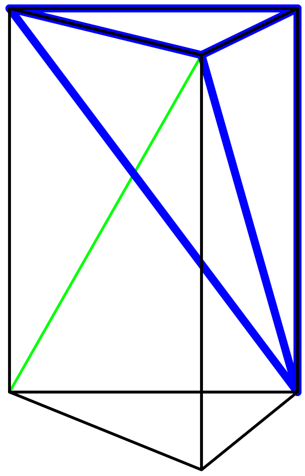

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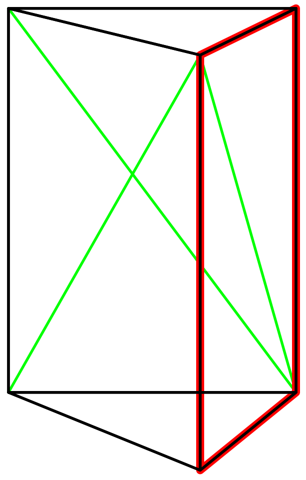

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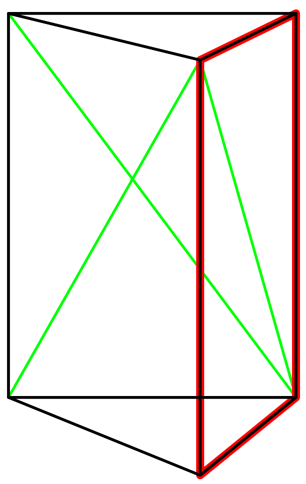

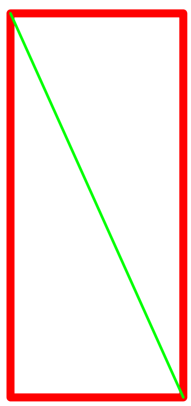

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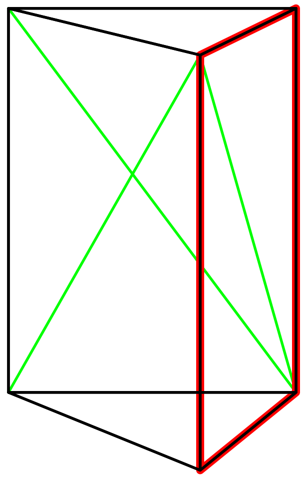

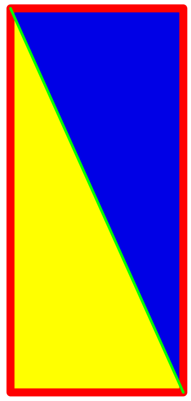

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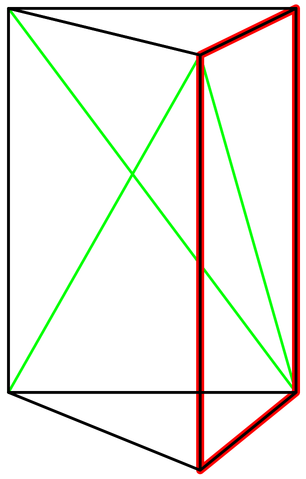

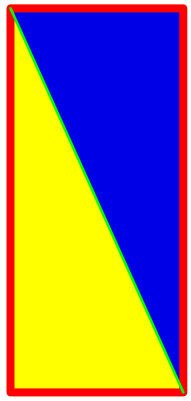

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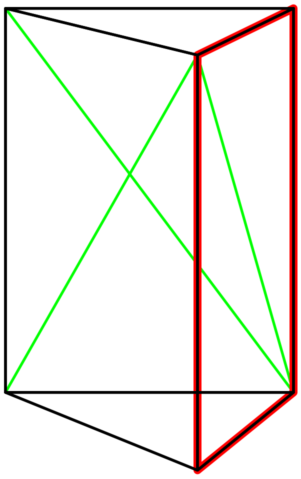

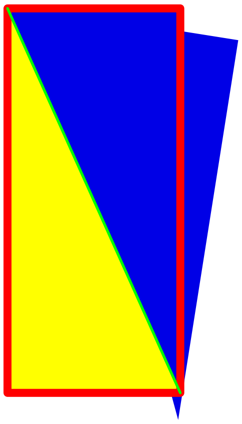

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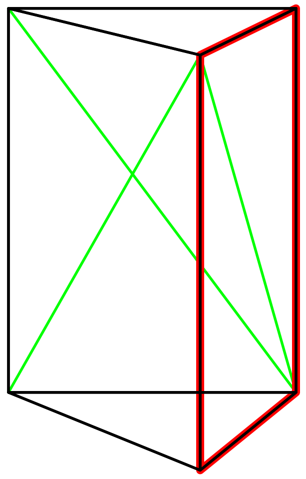

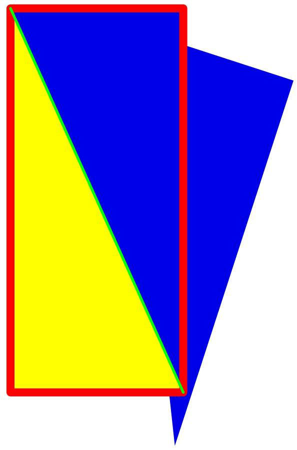

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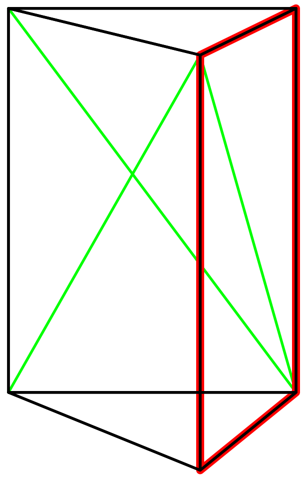

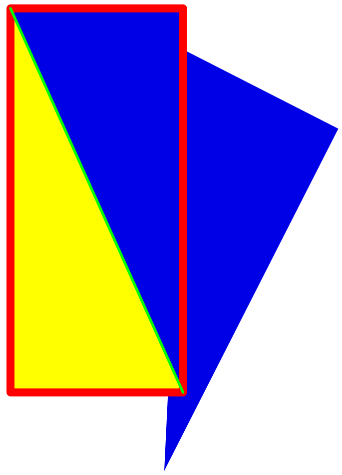

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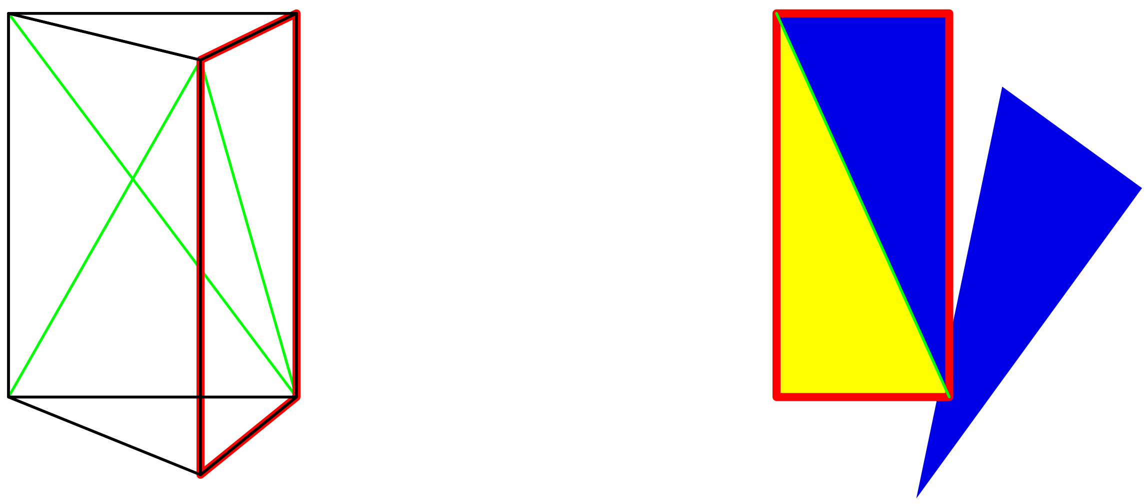

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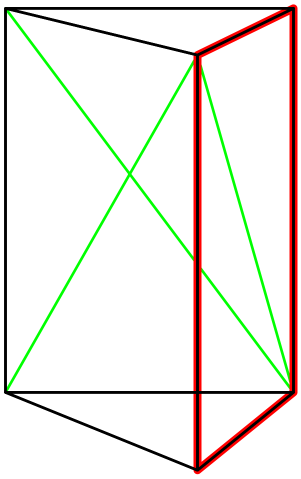

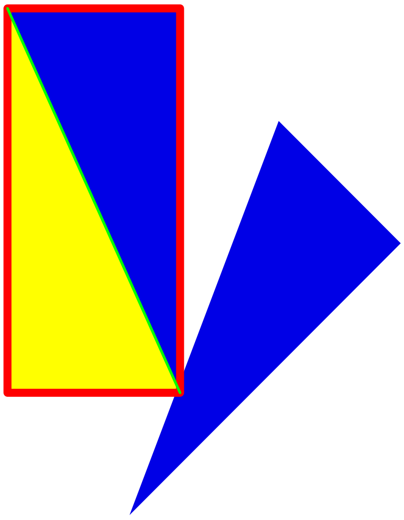

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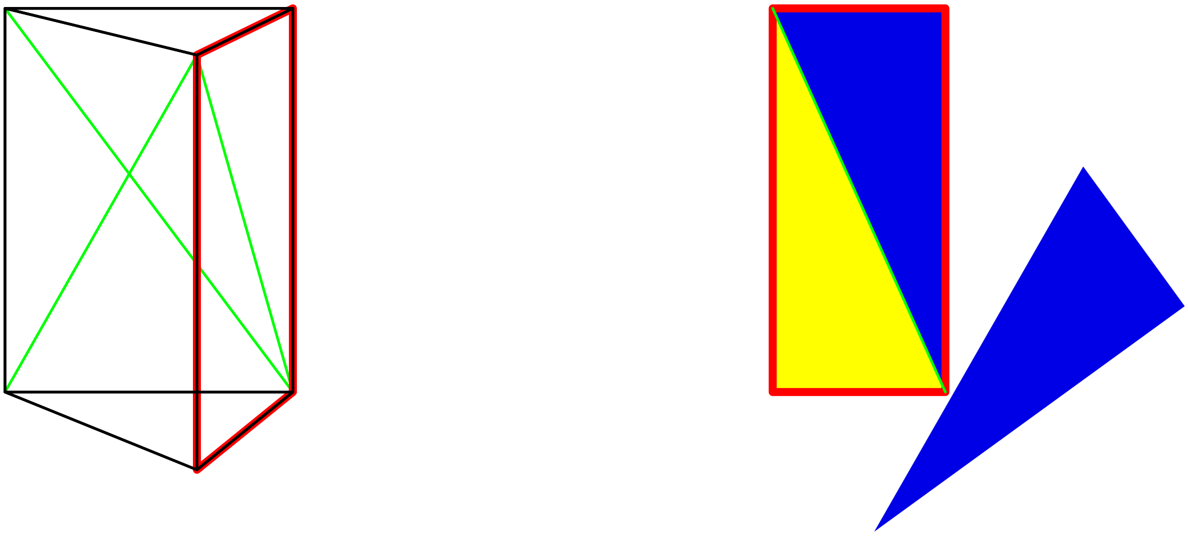

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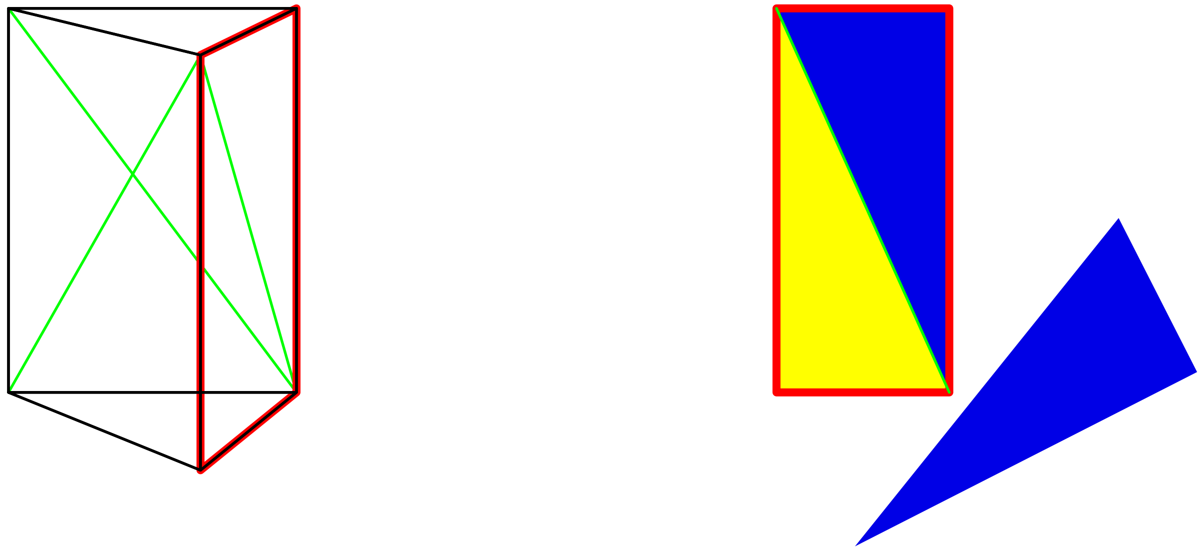

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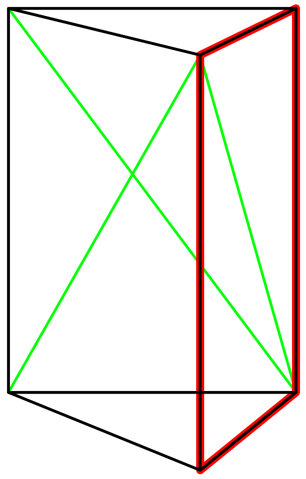

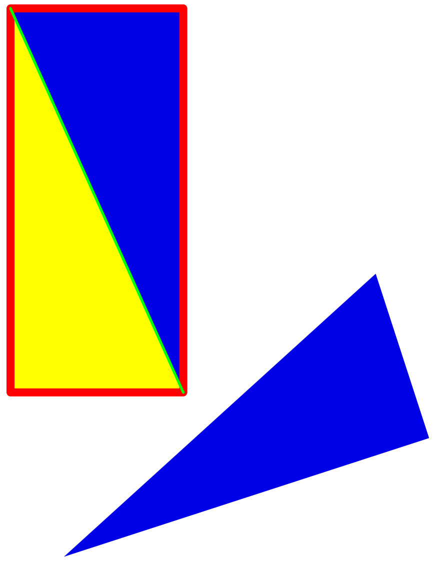

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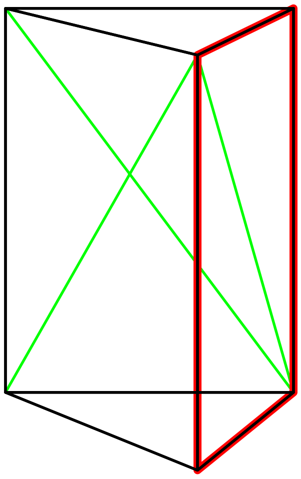

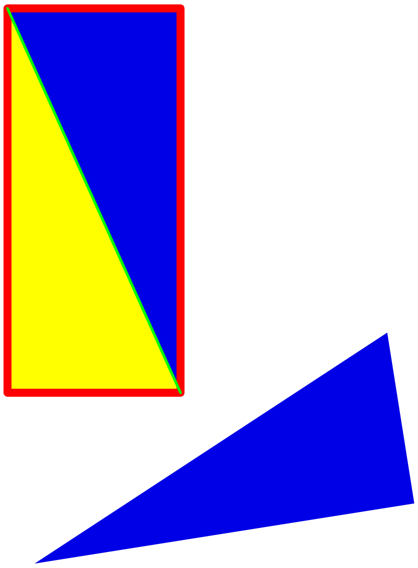

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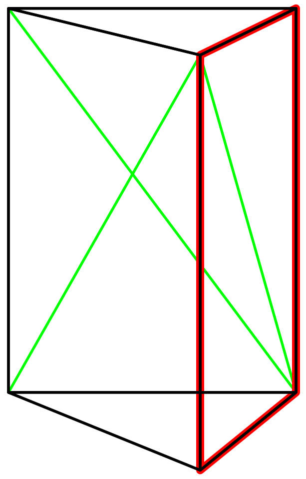

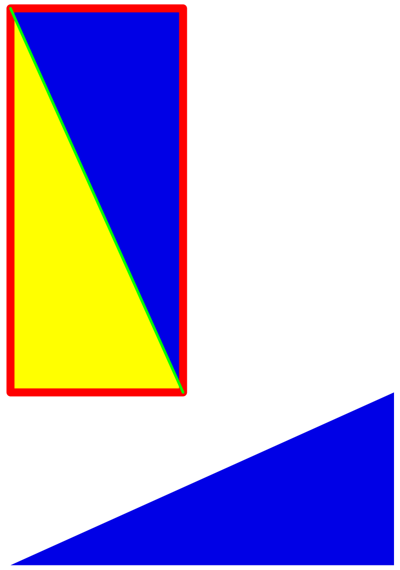

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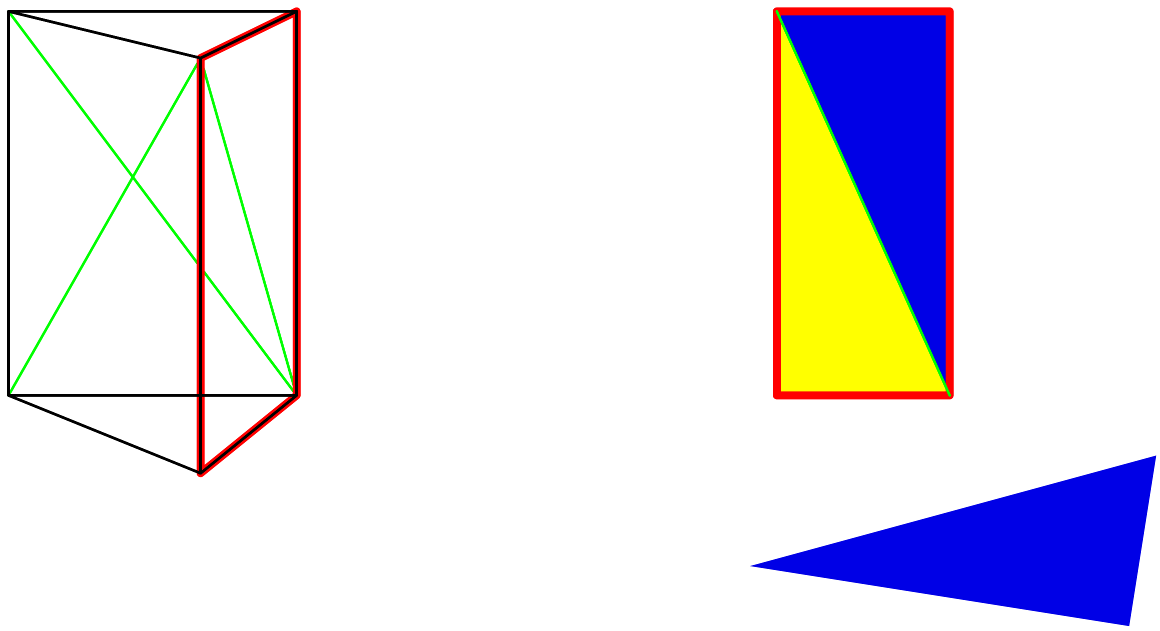

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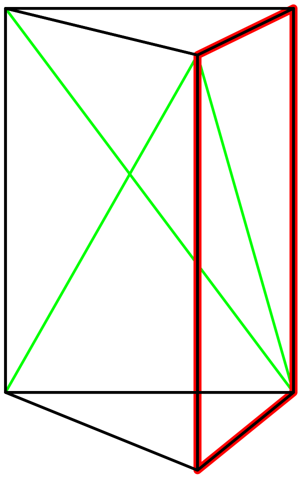

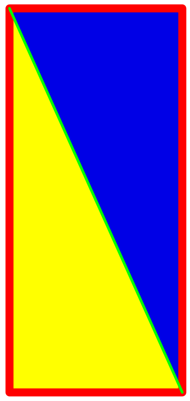

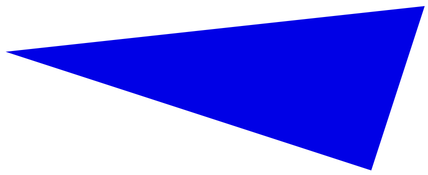

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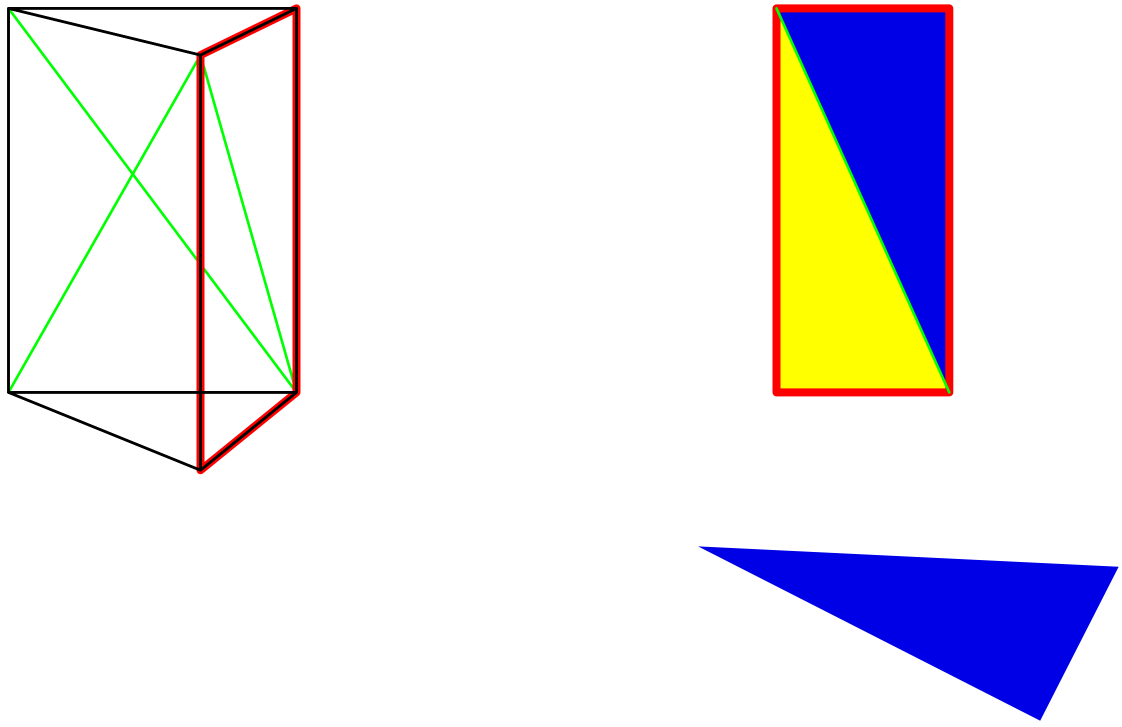

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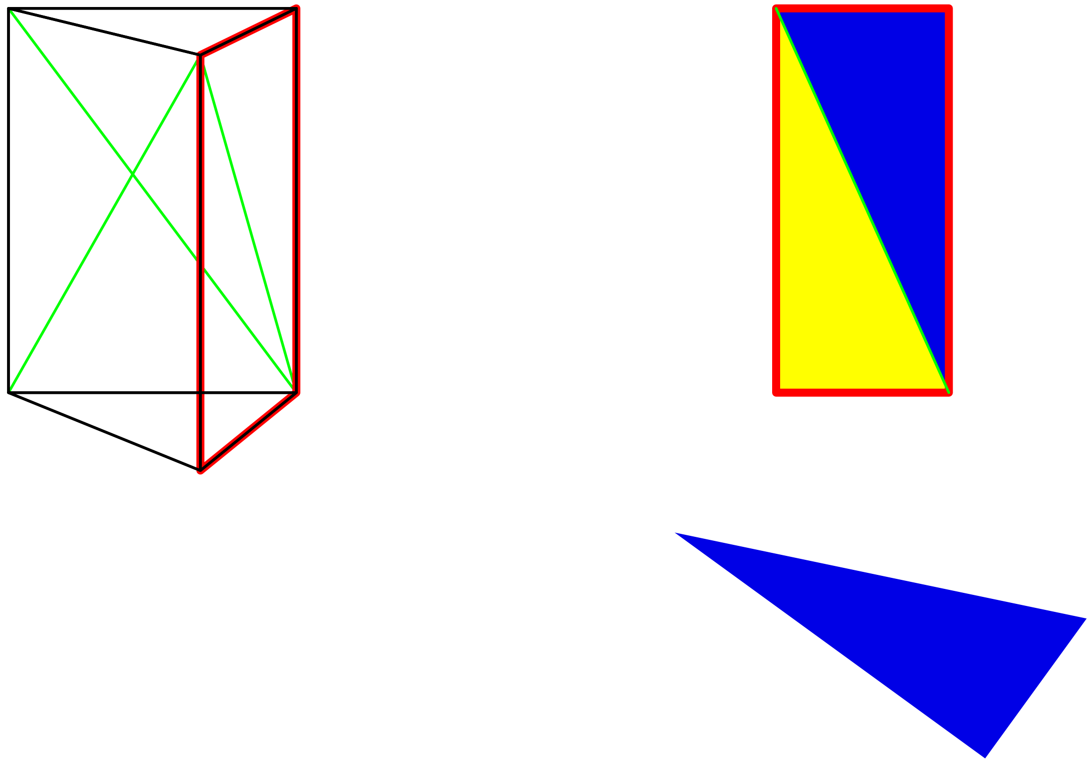

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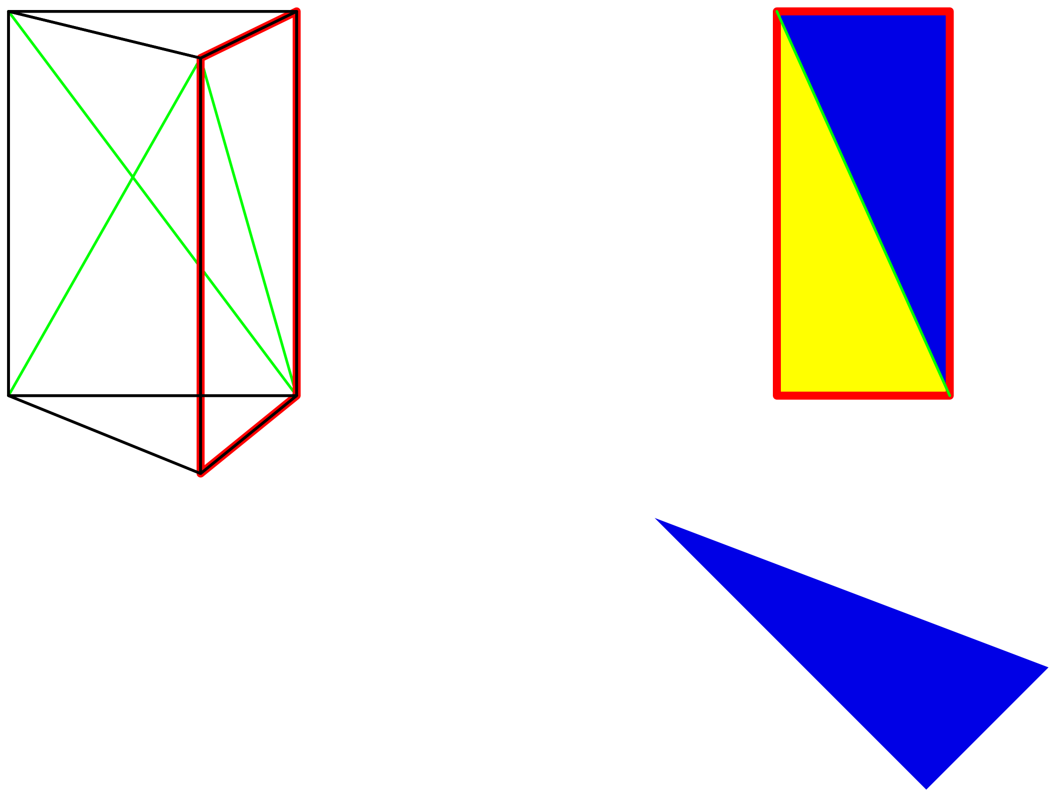

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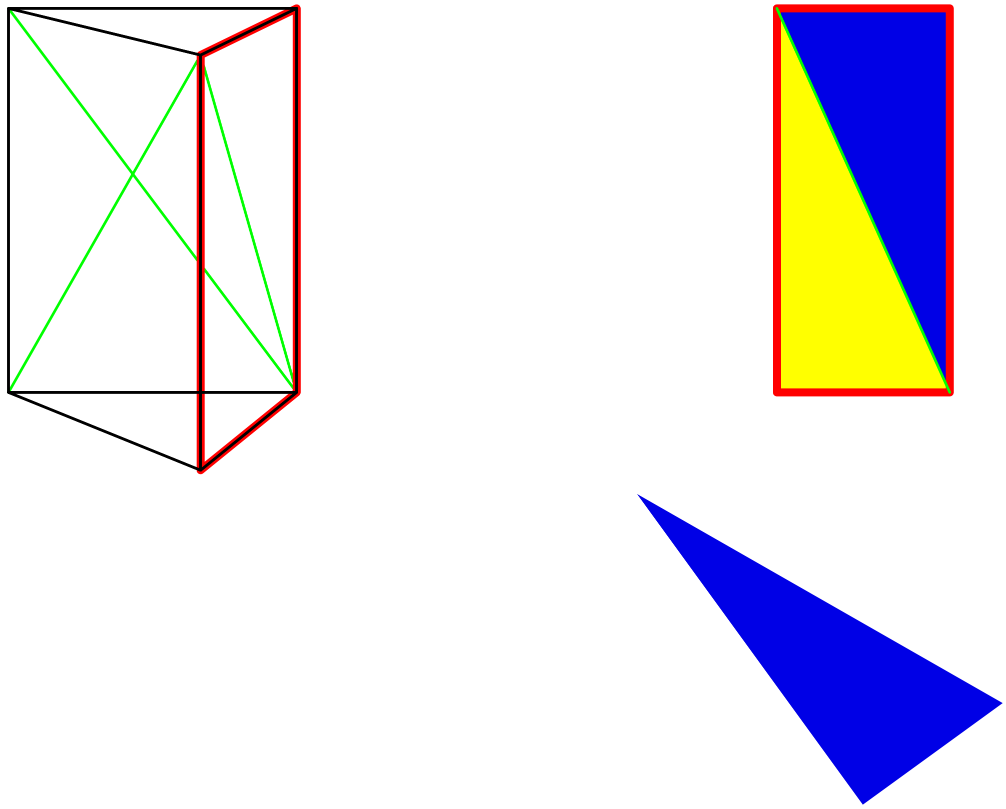

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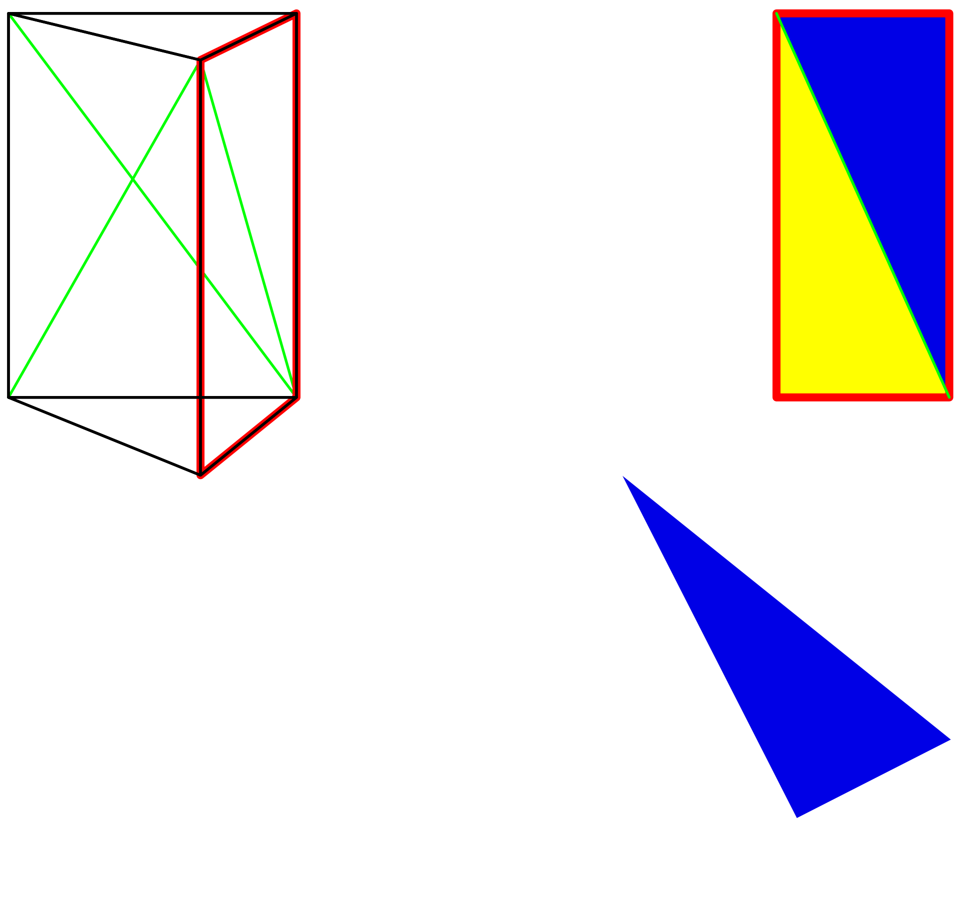

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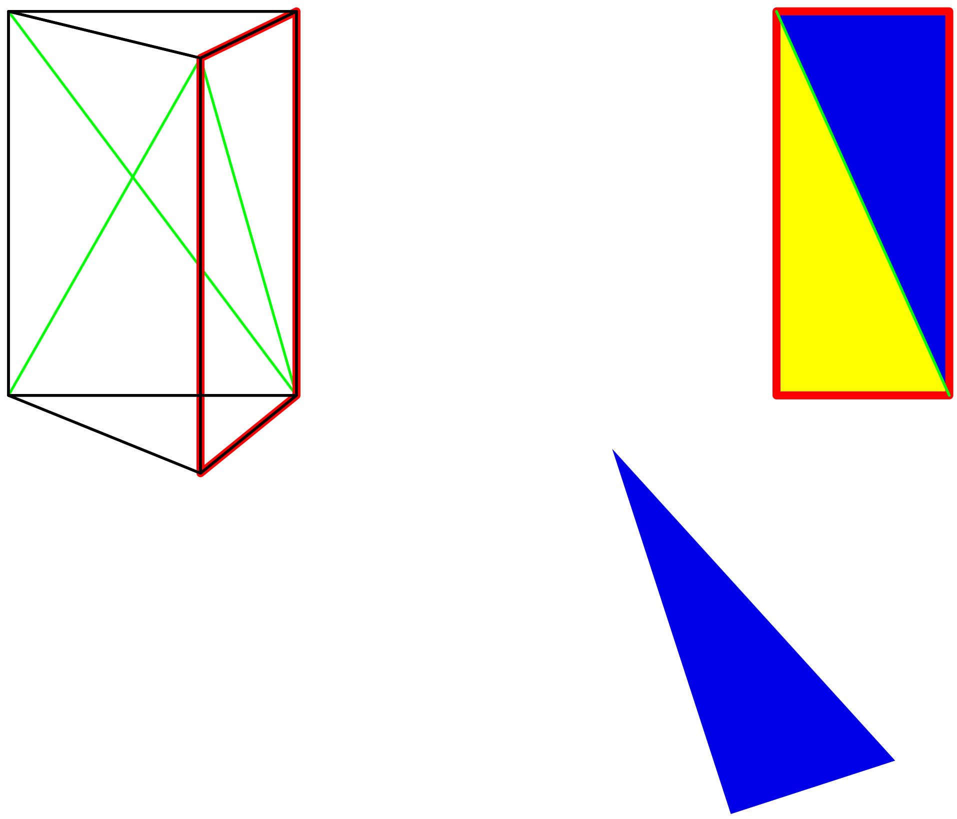

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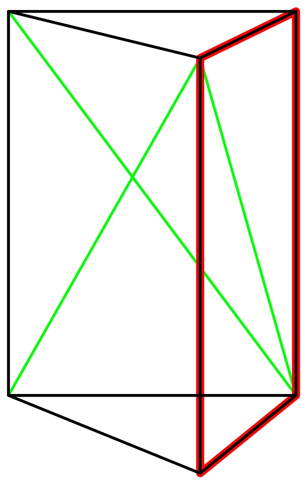

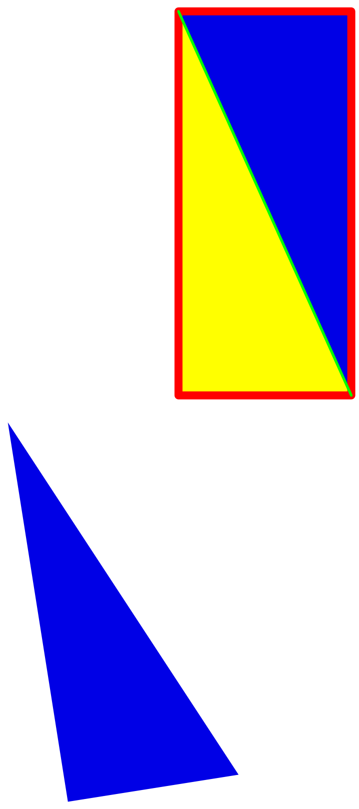

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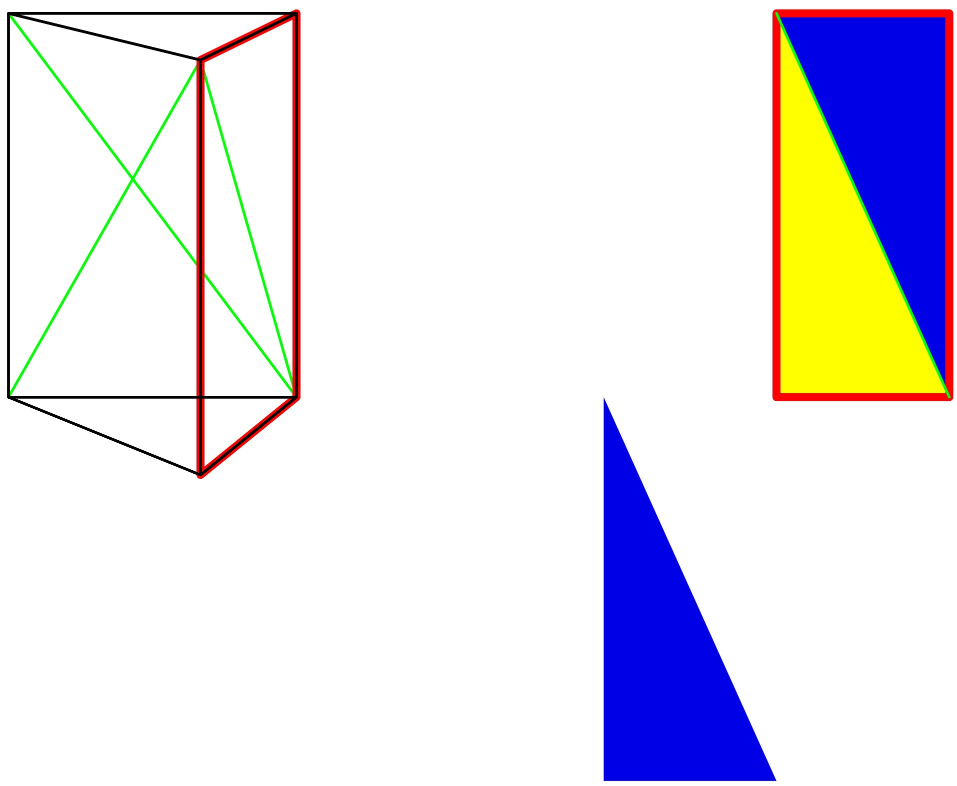

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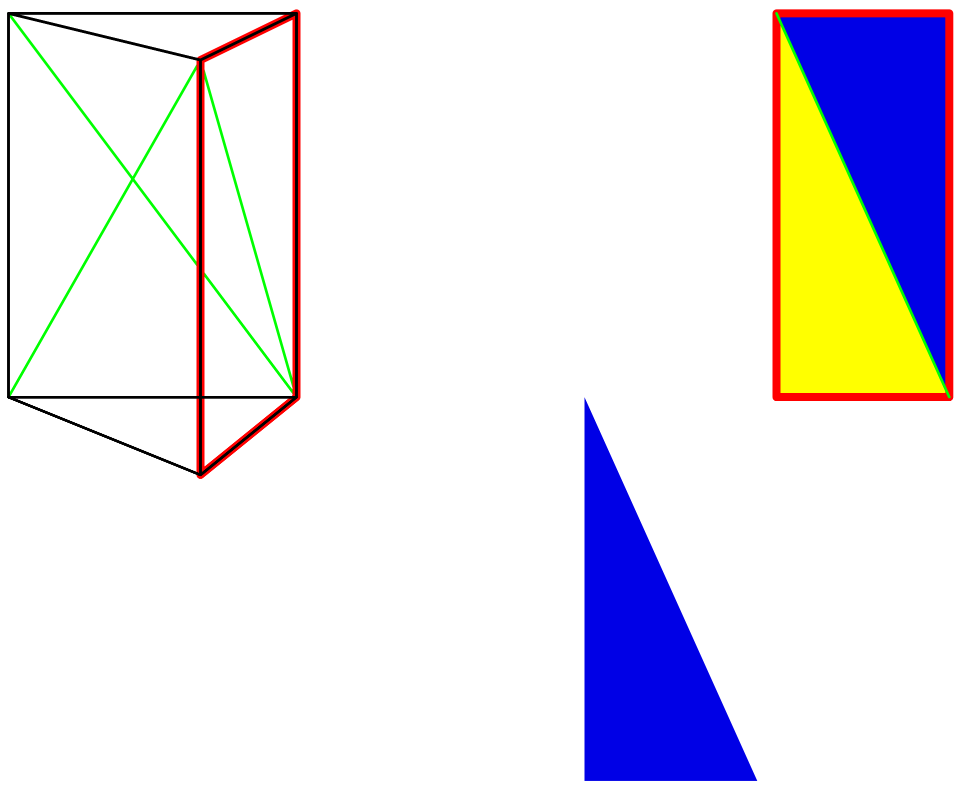

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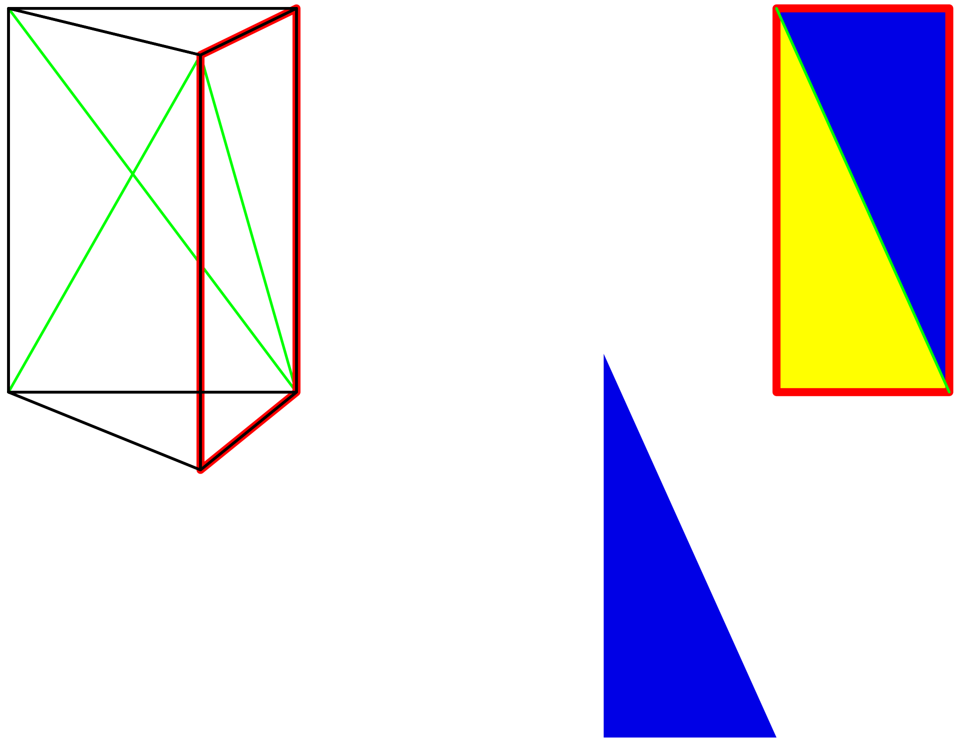

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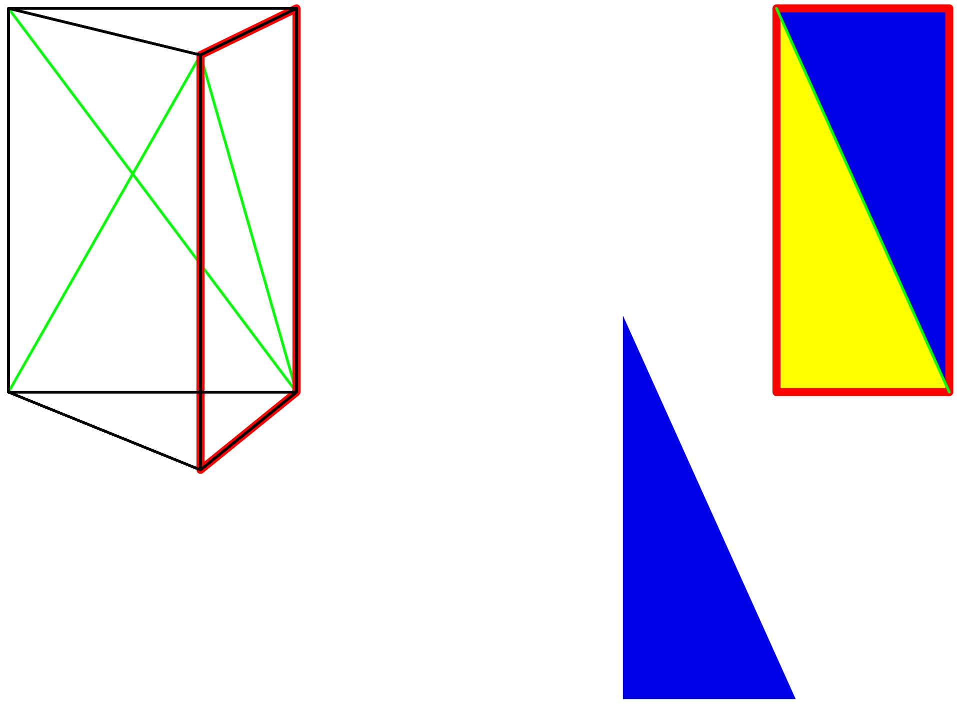

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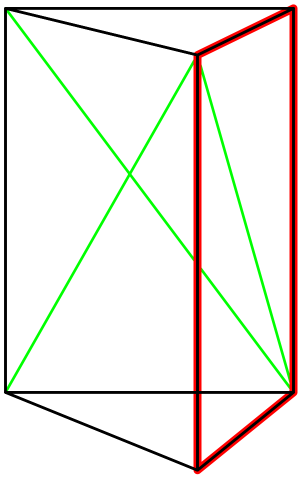

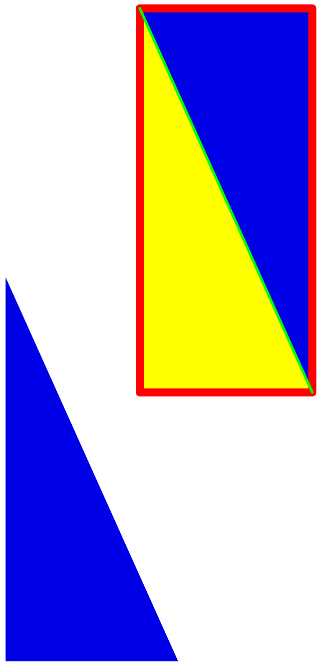

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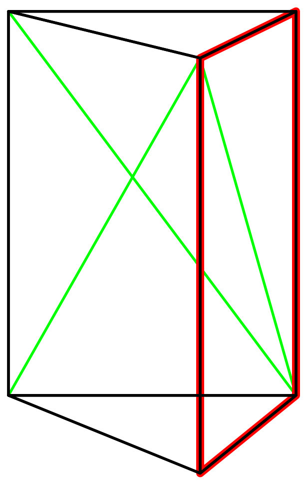

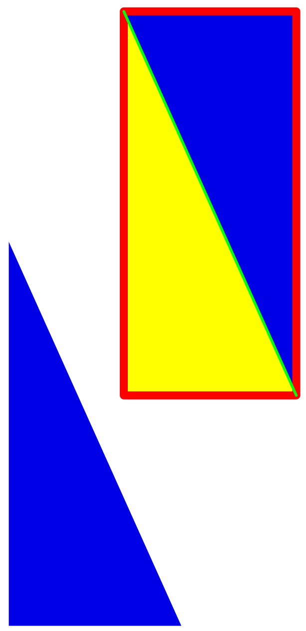

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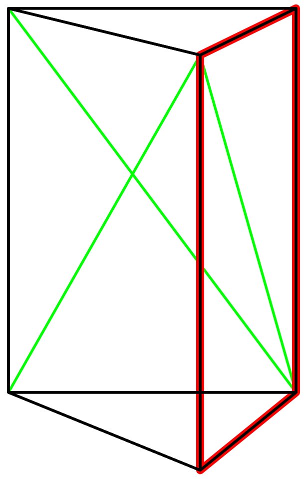

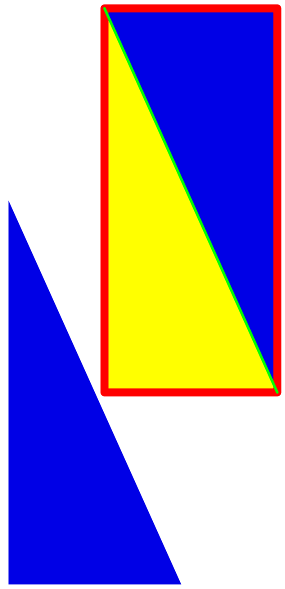

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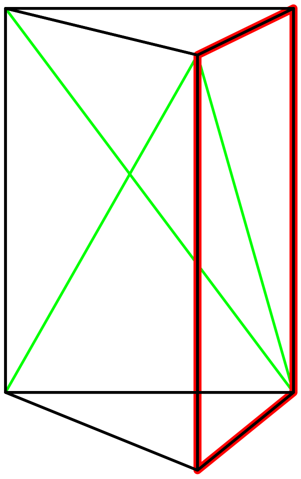

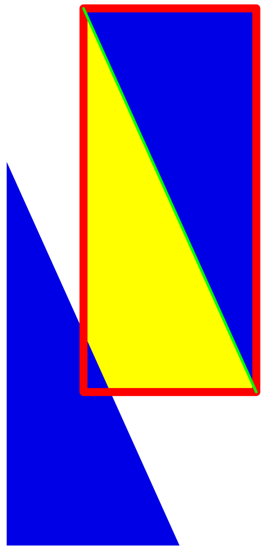

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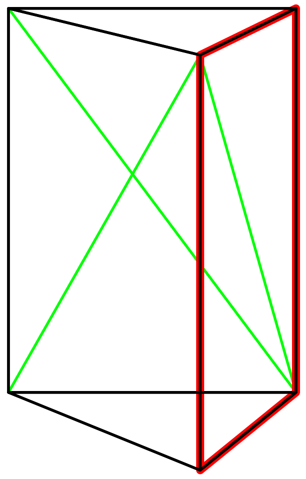

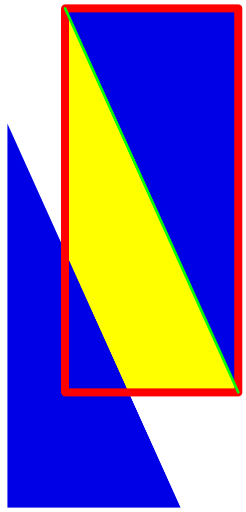

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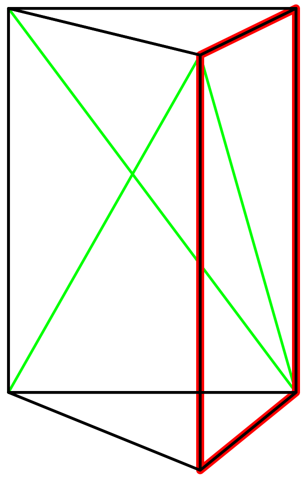

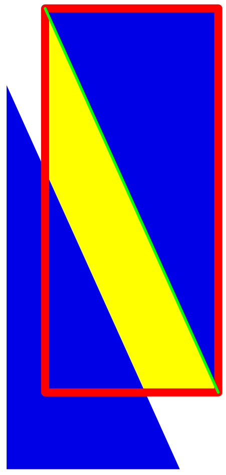

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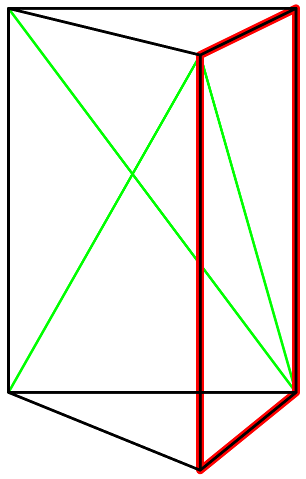

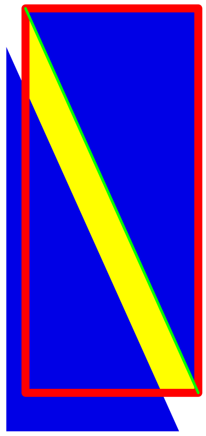

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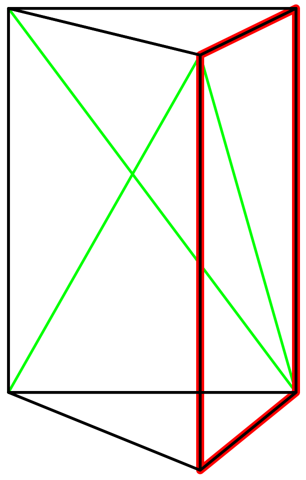

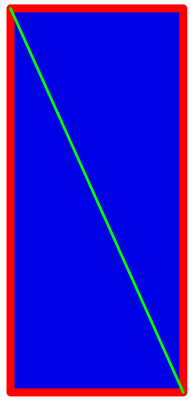

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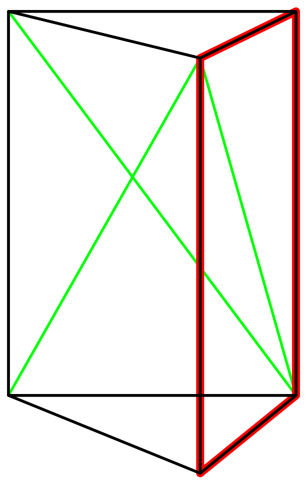

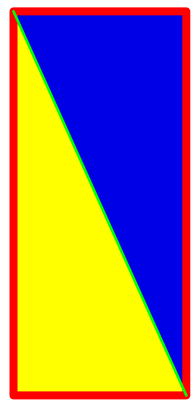

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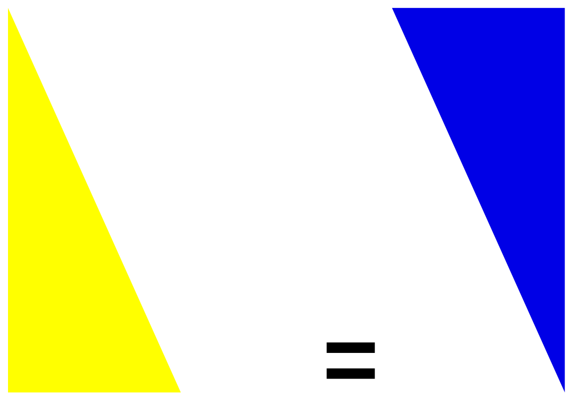

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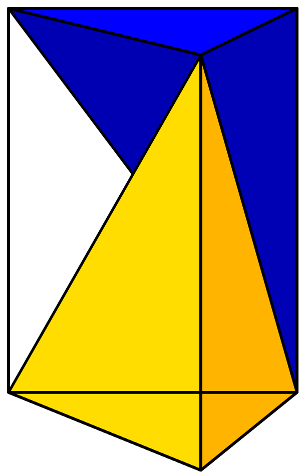

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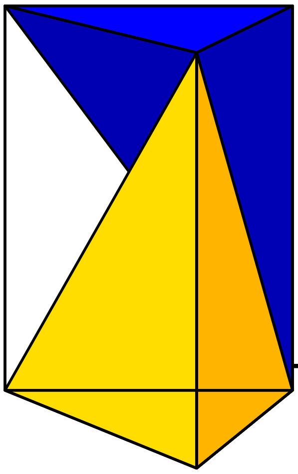

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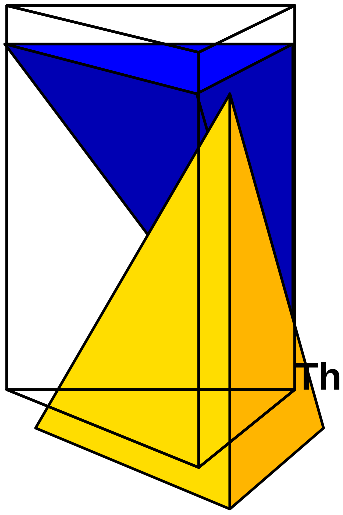

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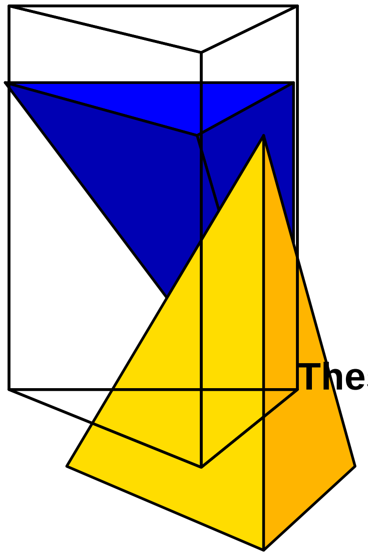

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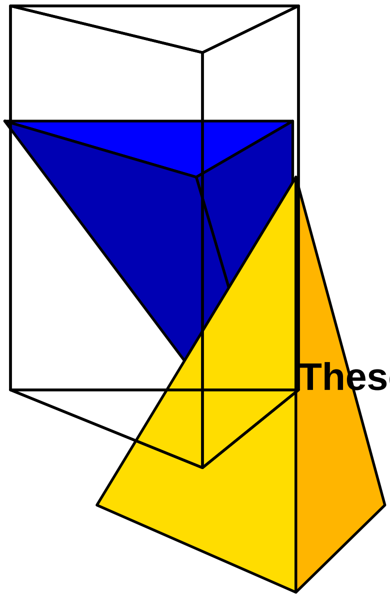

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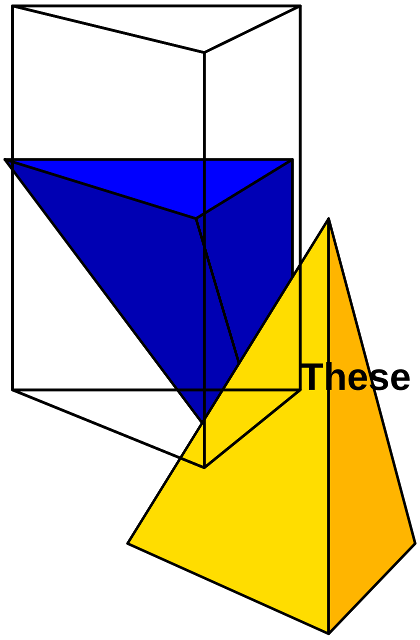

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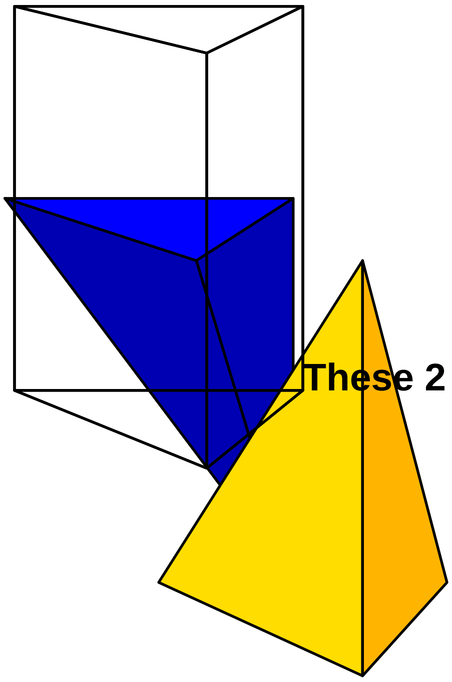

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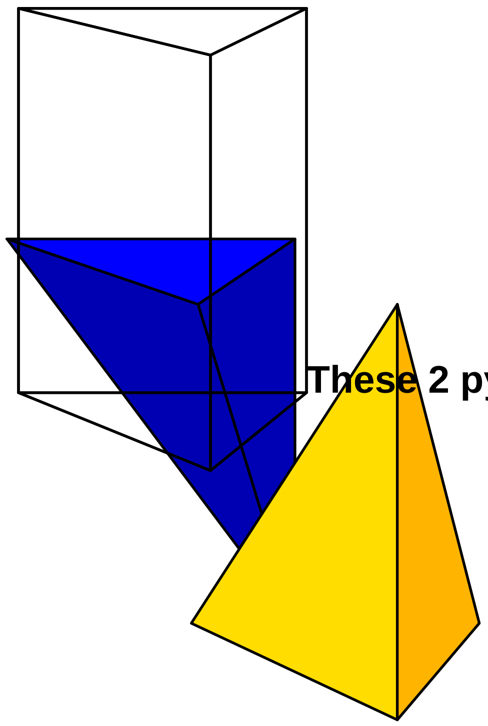

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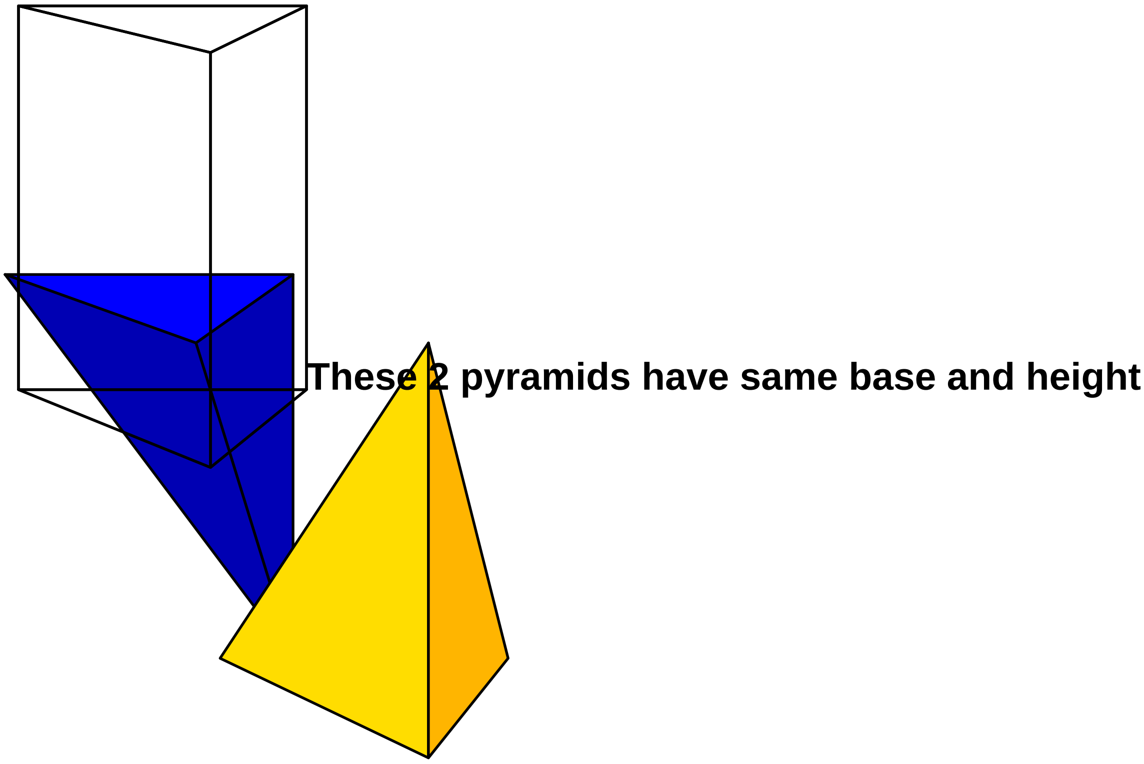

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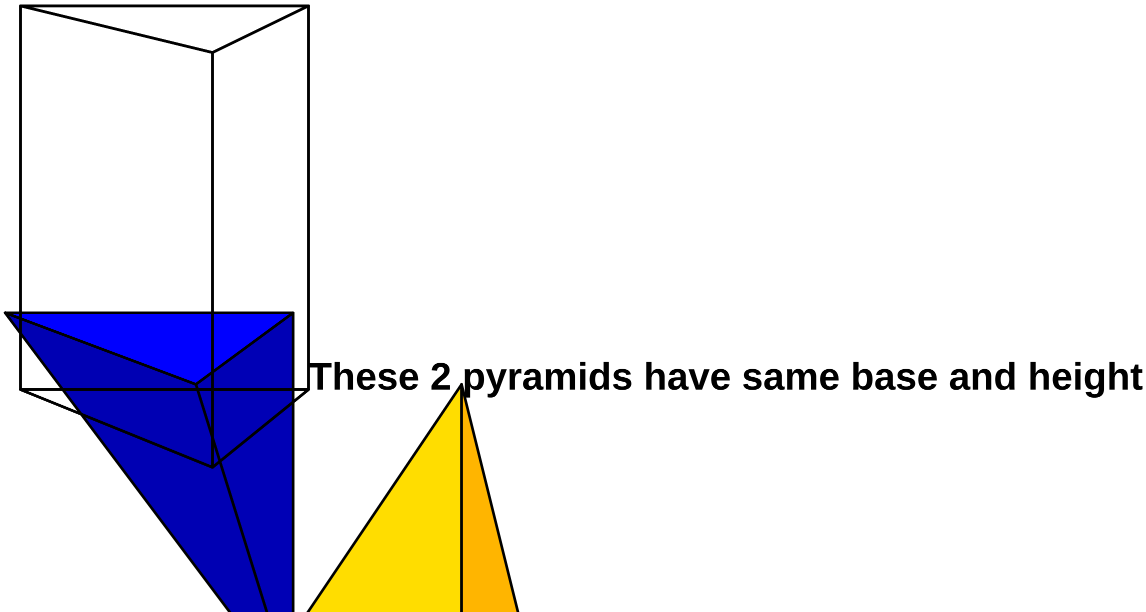

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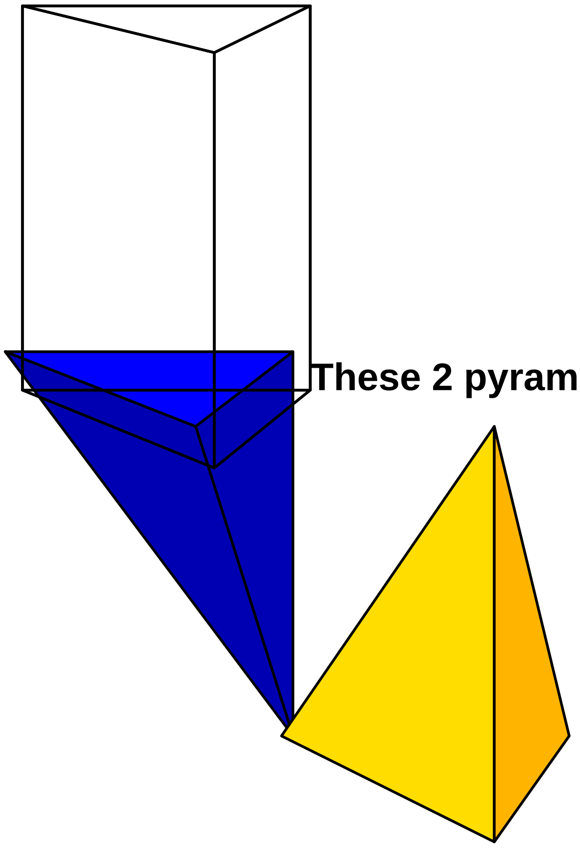

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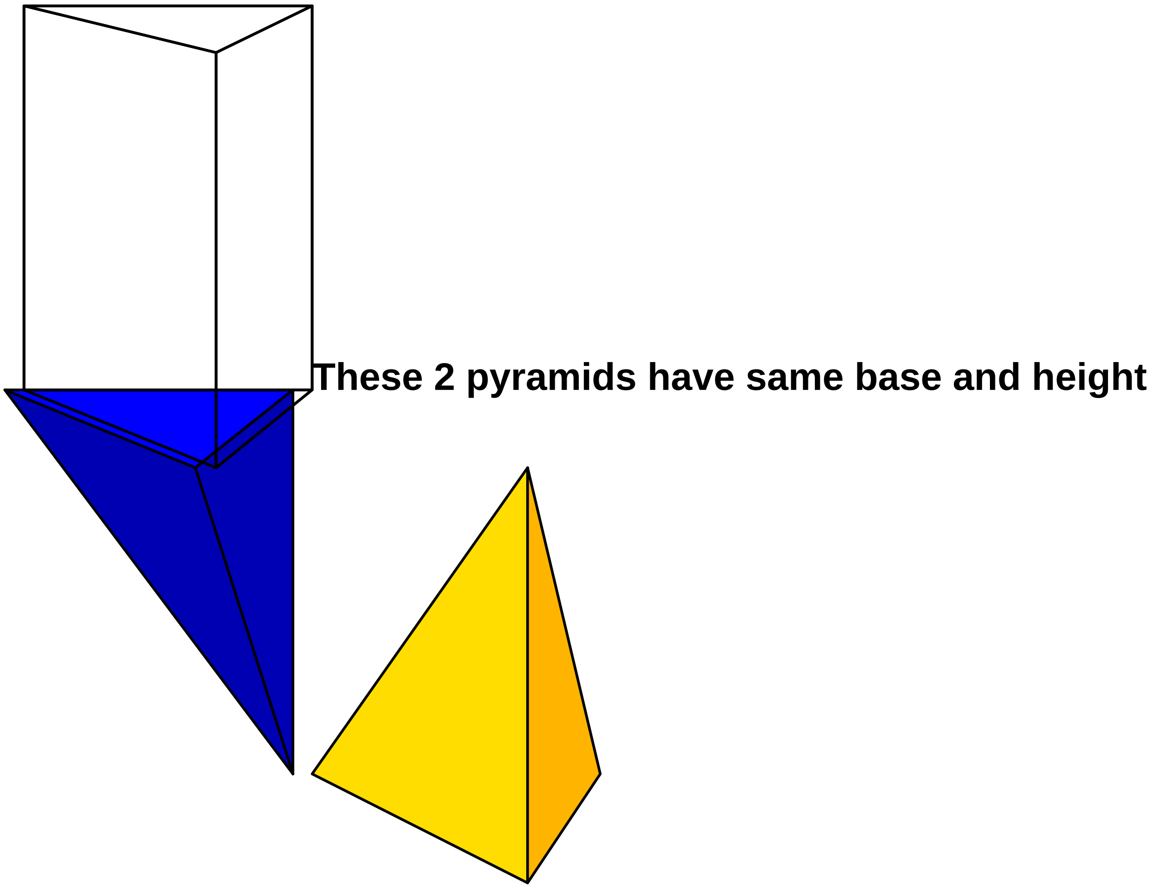

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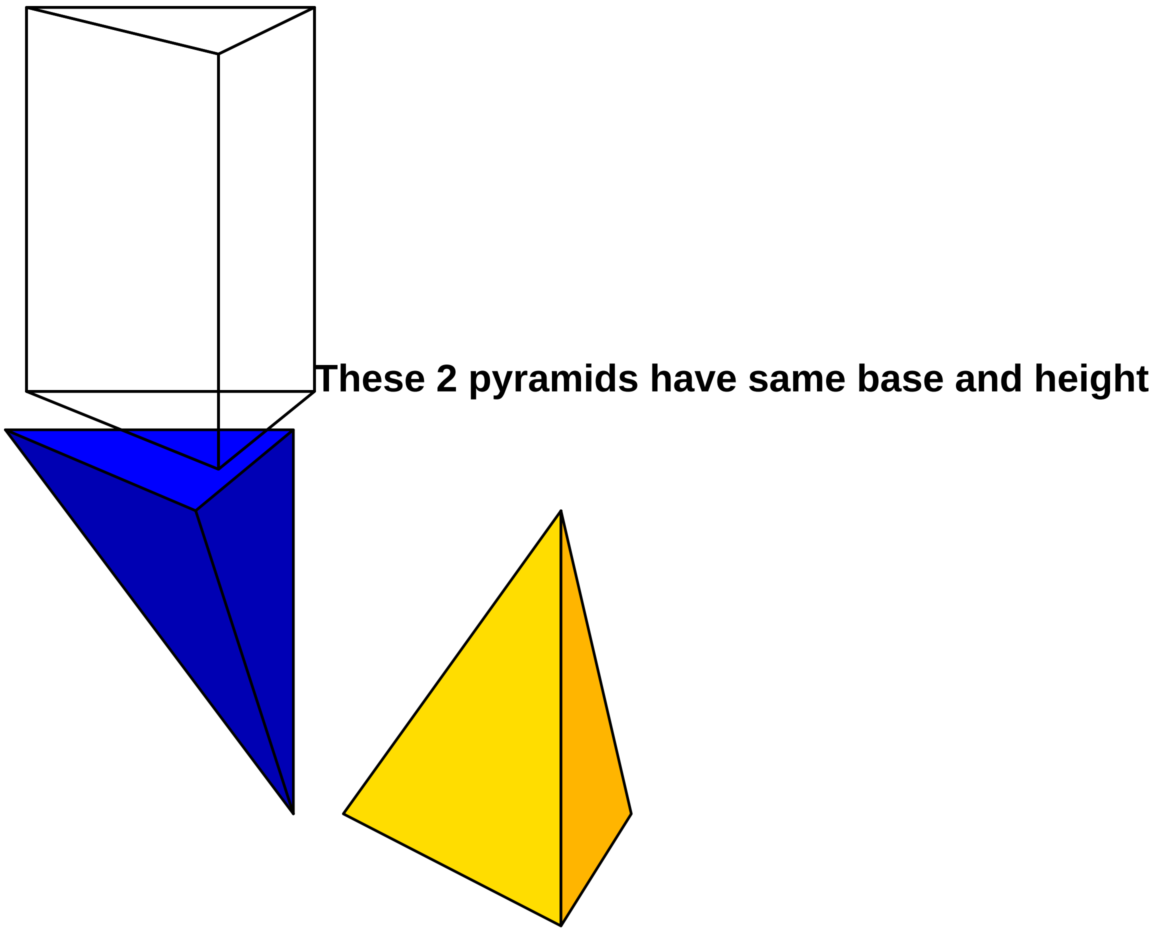

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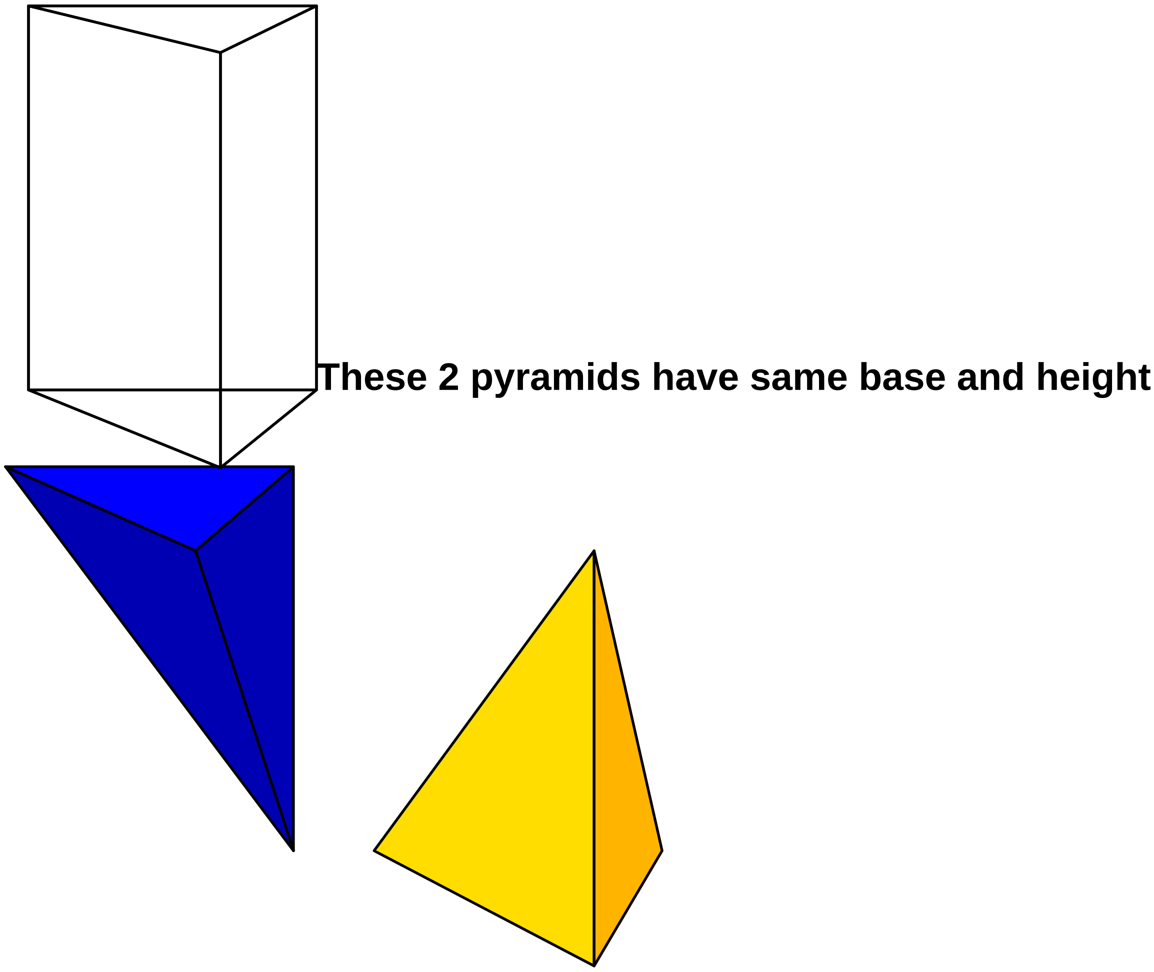

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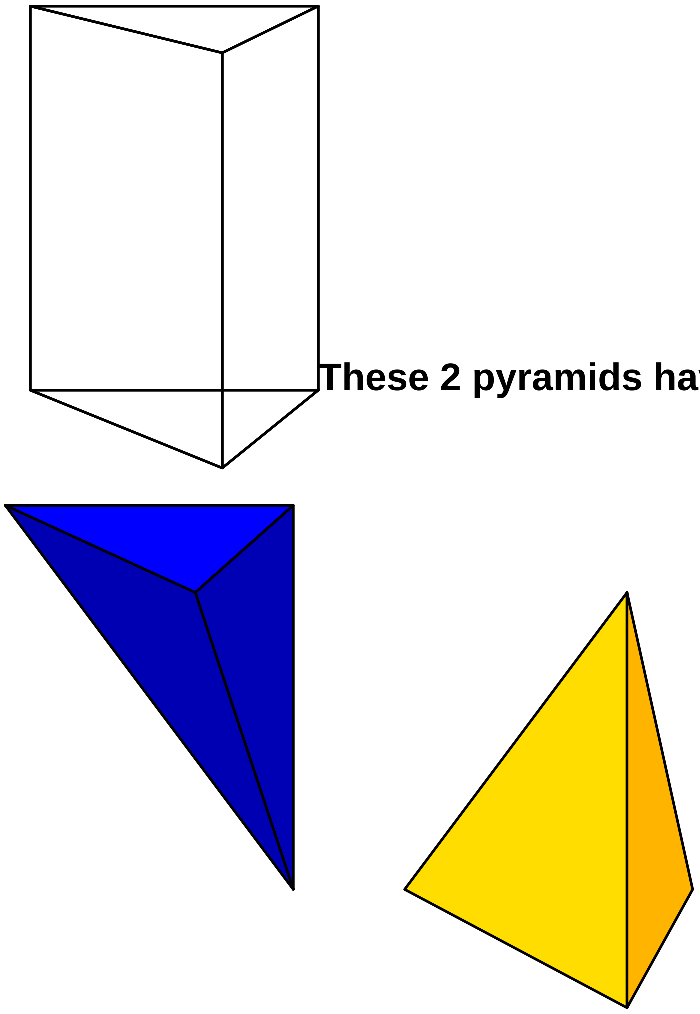

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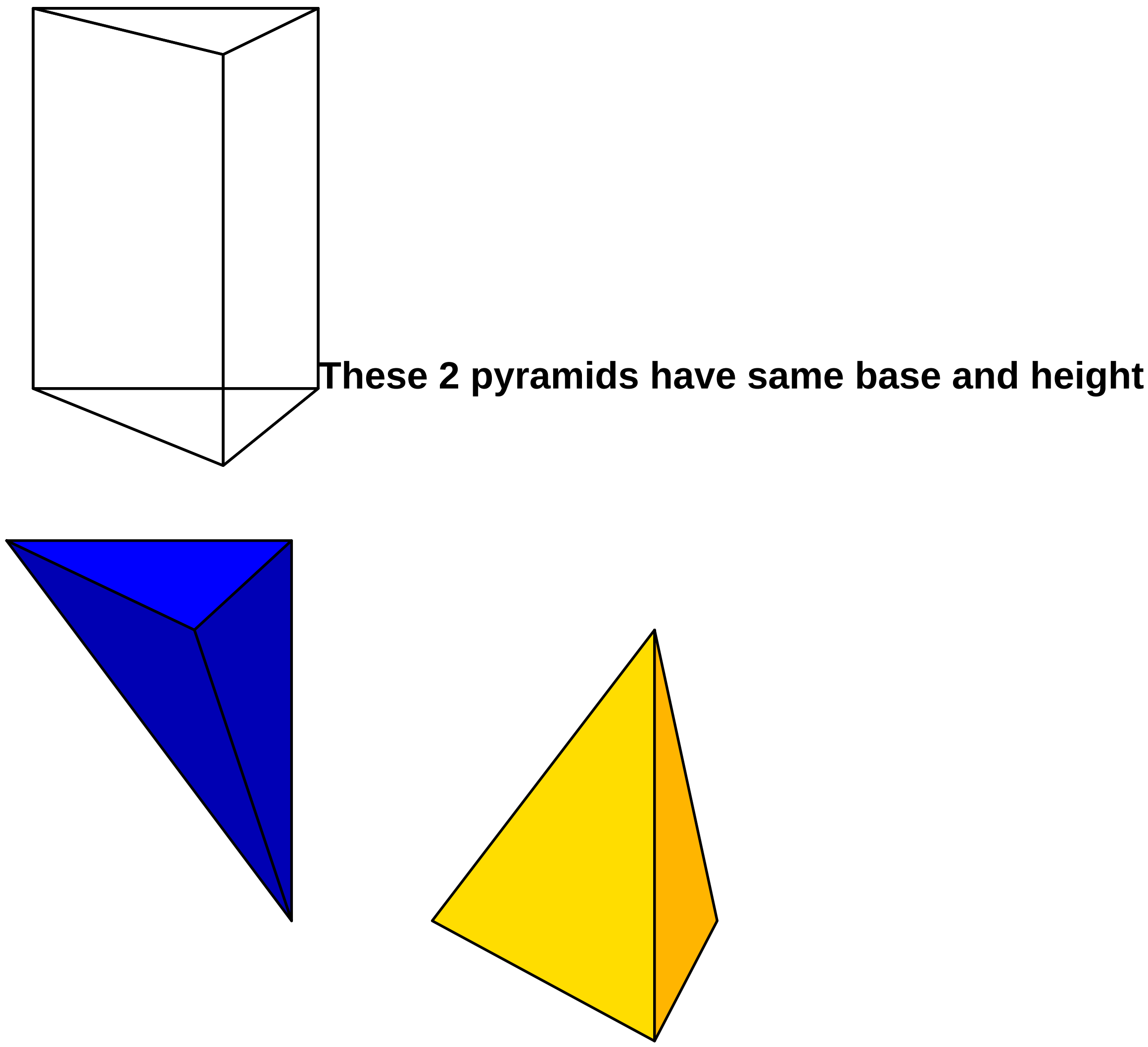

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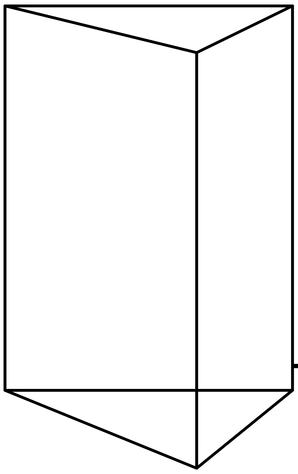

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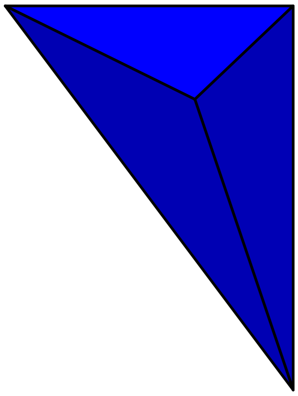

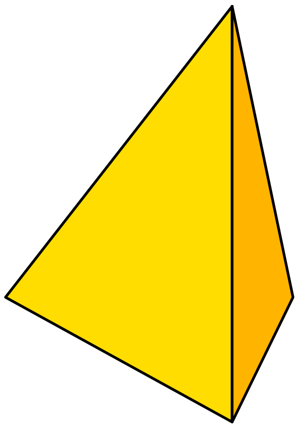

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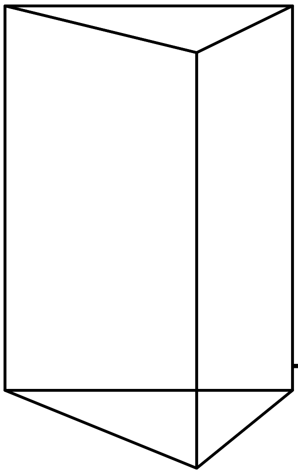

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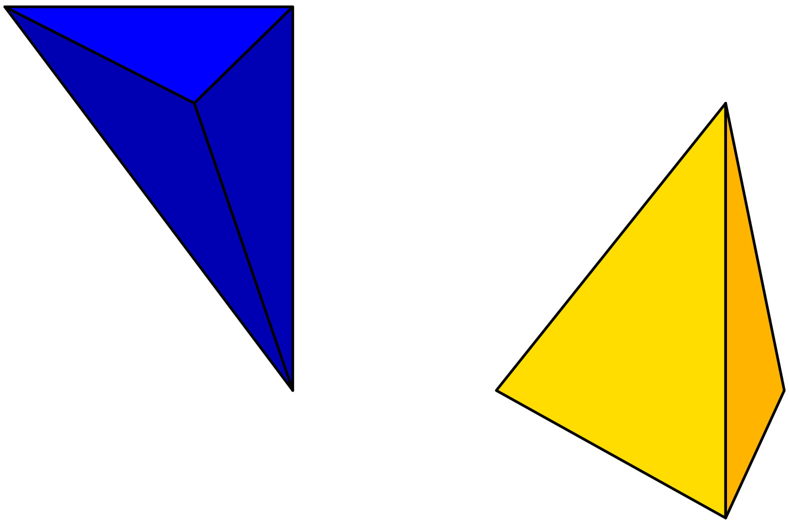

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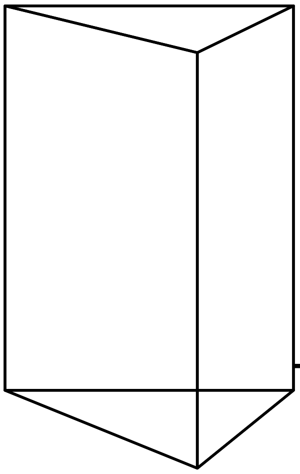

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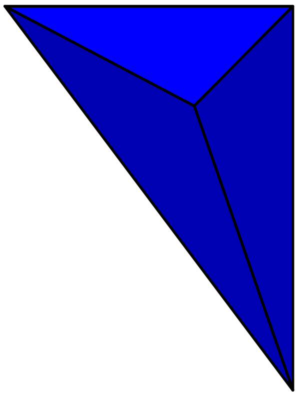

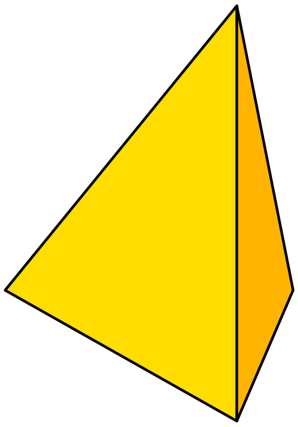

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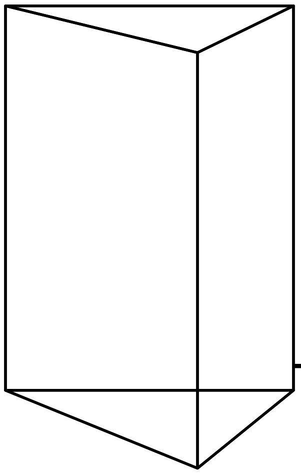

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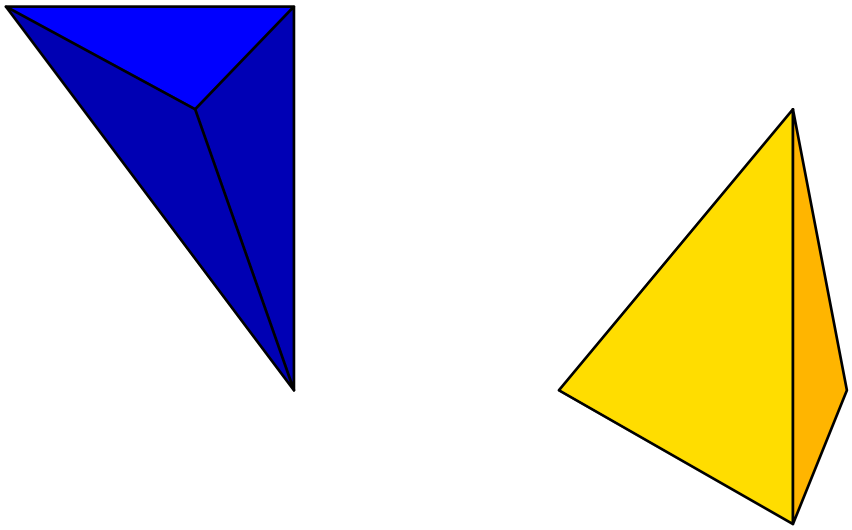

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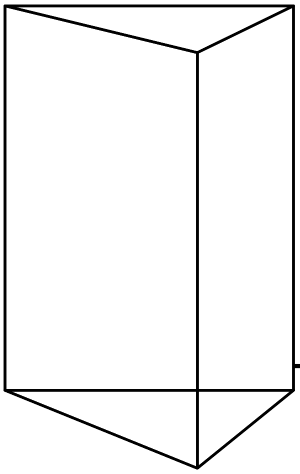

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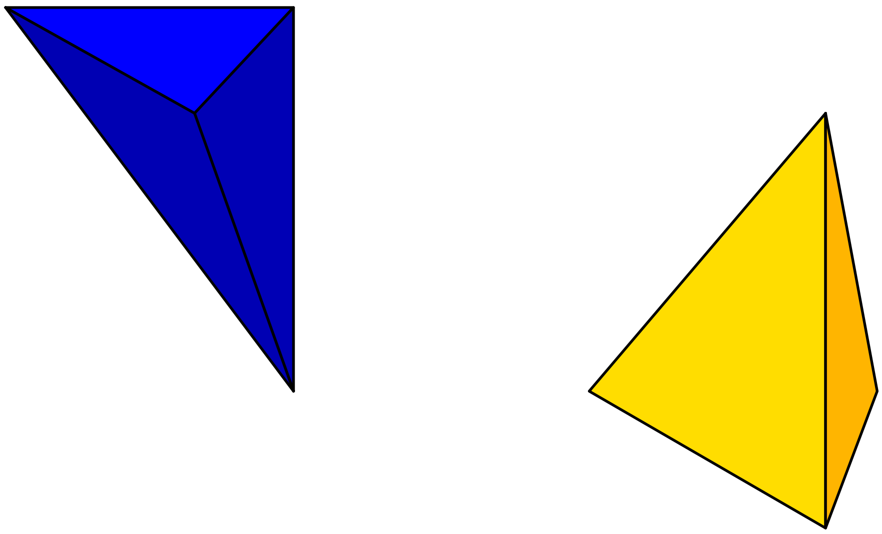

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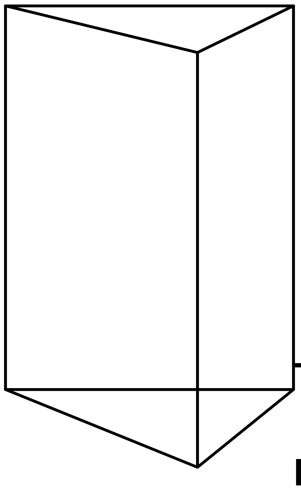

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By Eulid VII.4 & 5

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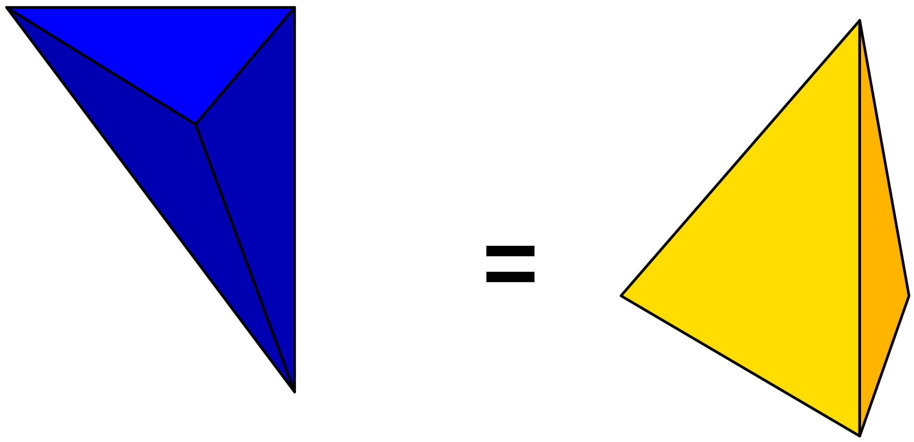

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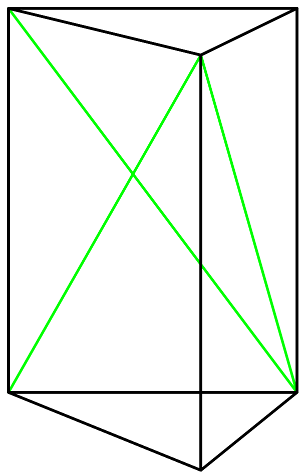

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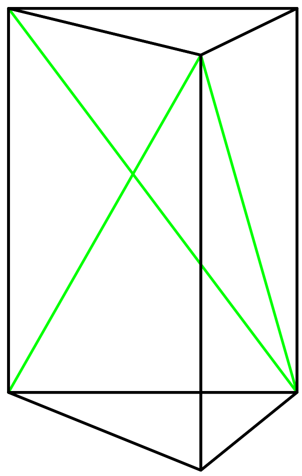

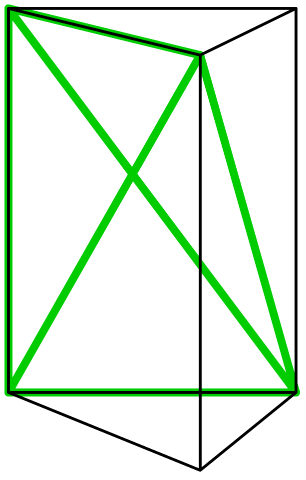

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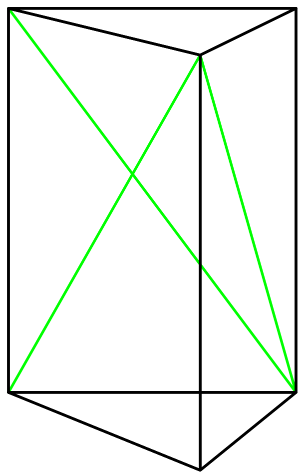

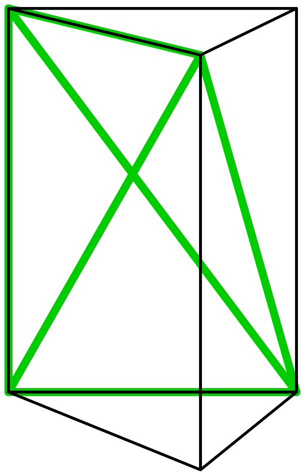

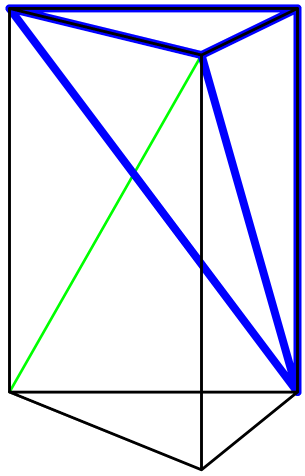

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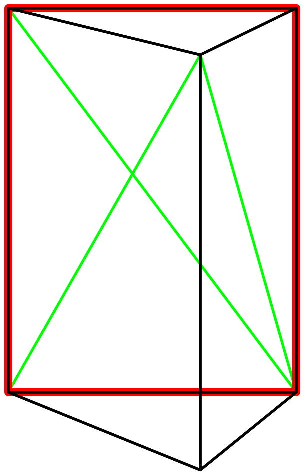

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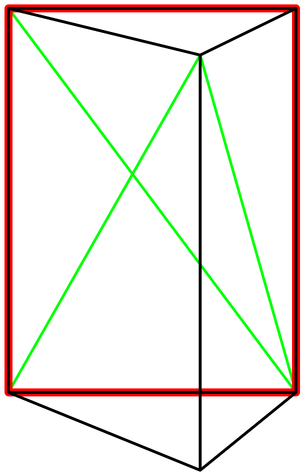

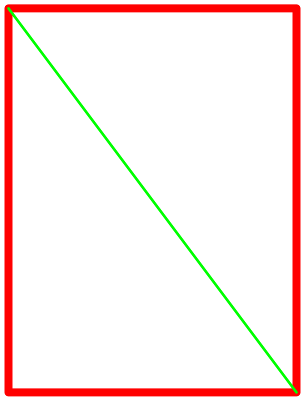

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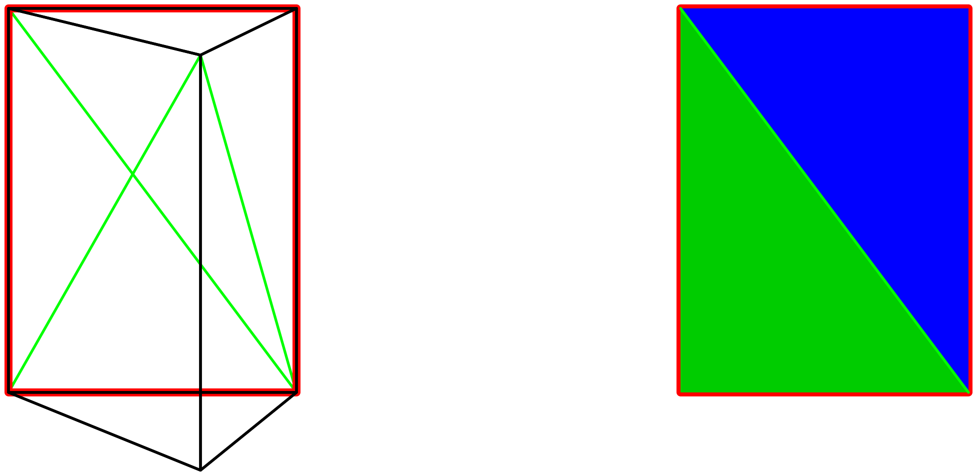

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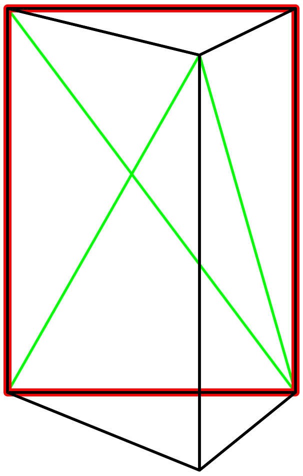

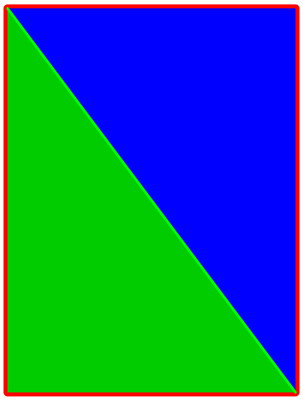

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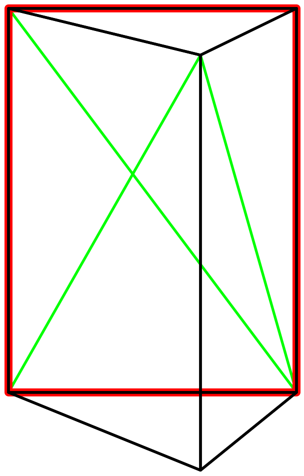

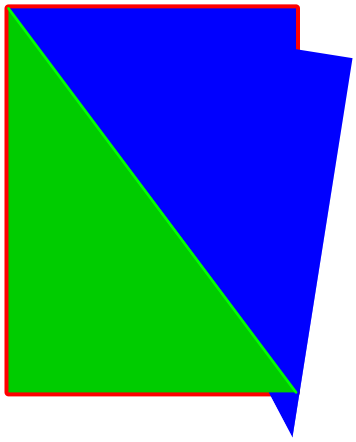

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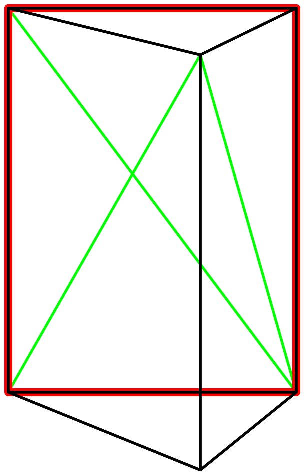

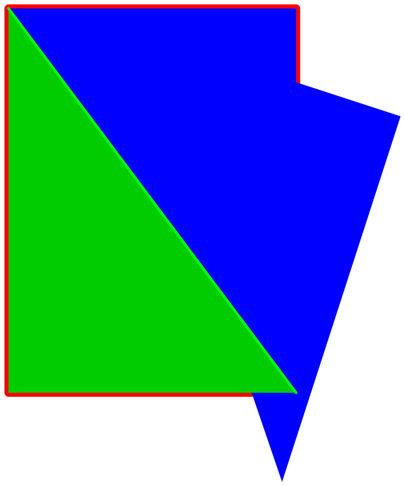

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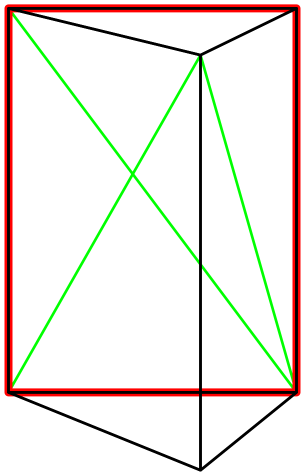

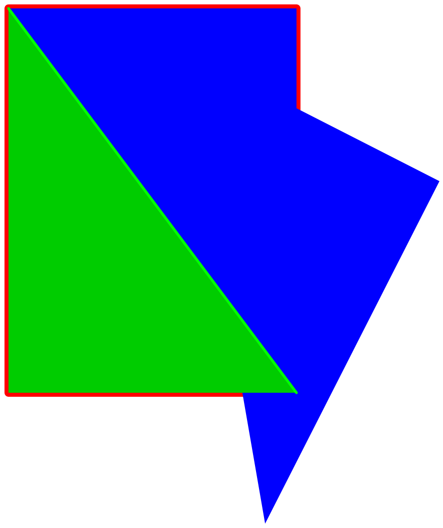

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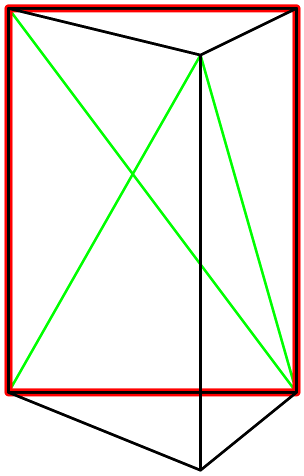

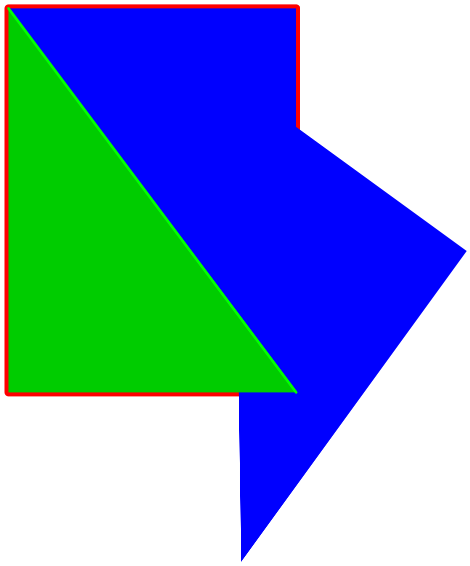

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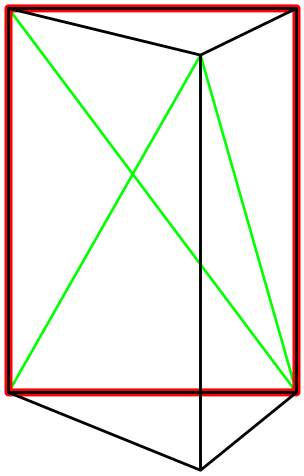

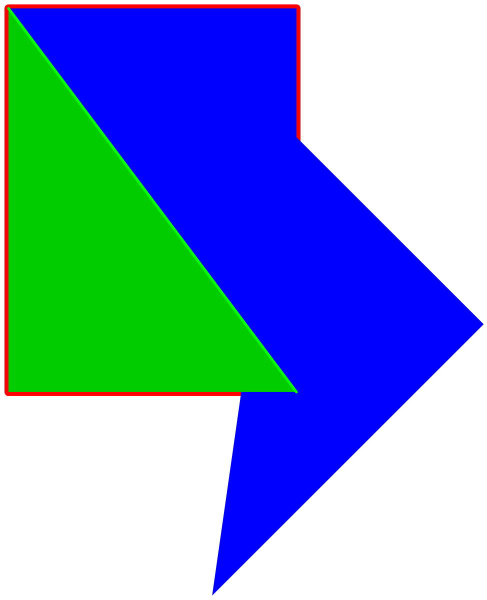

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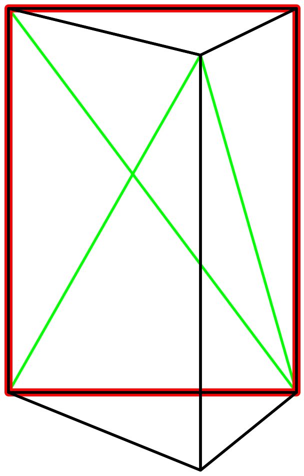

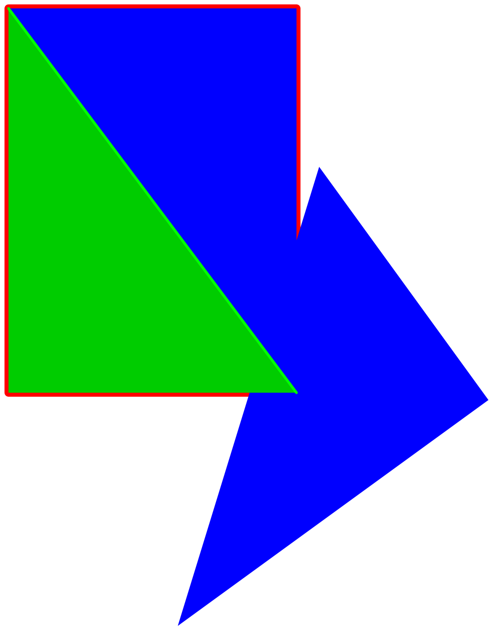

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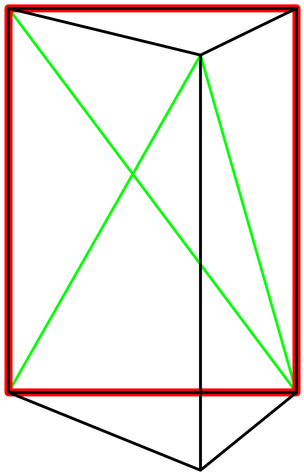

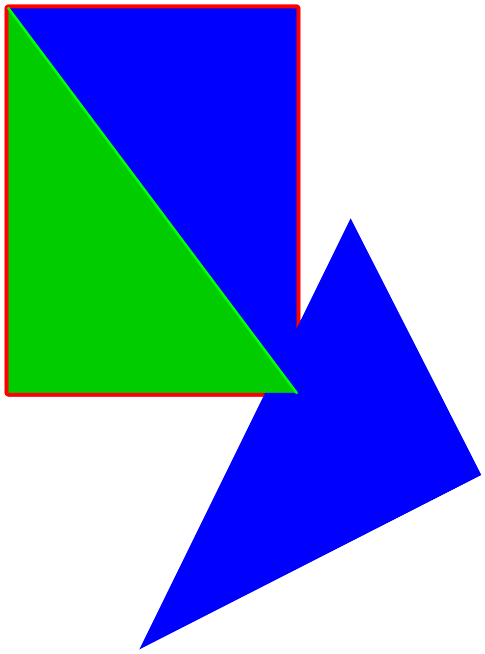

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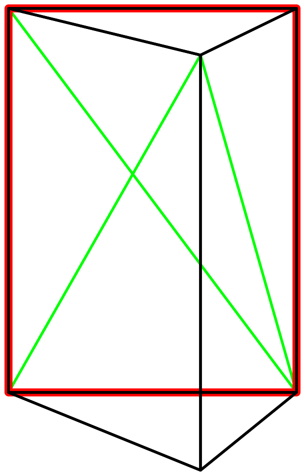

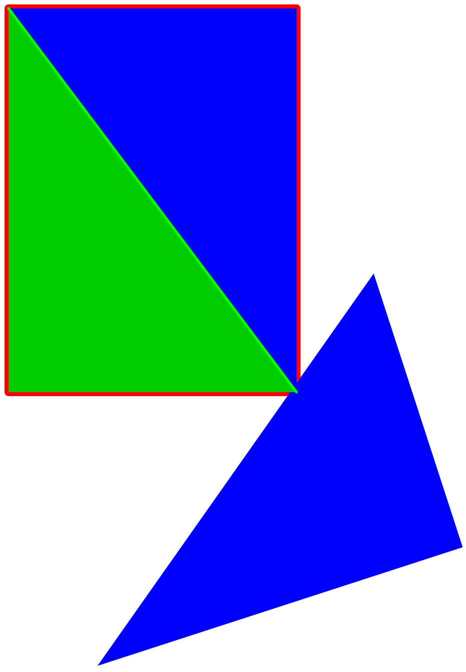

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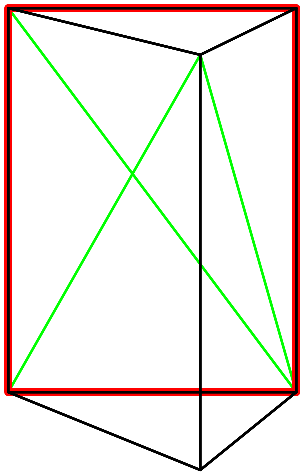

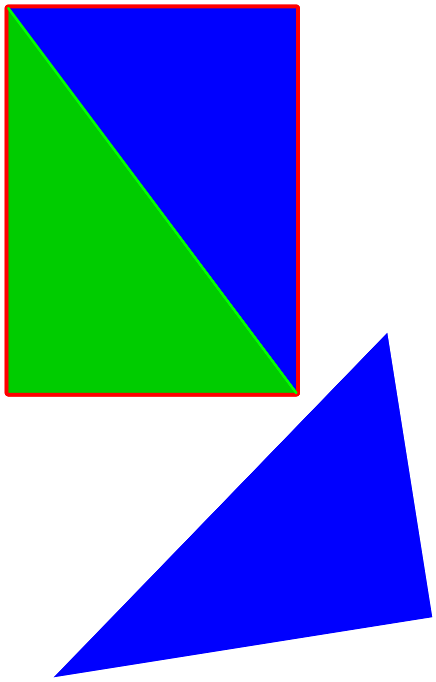

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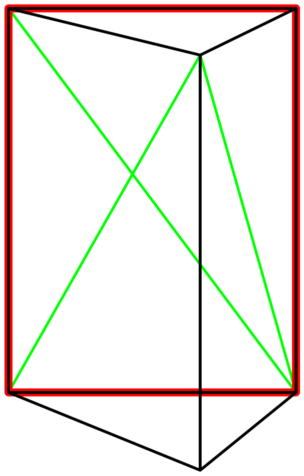

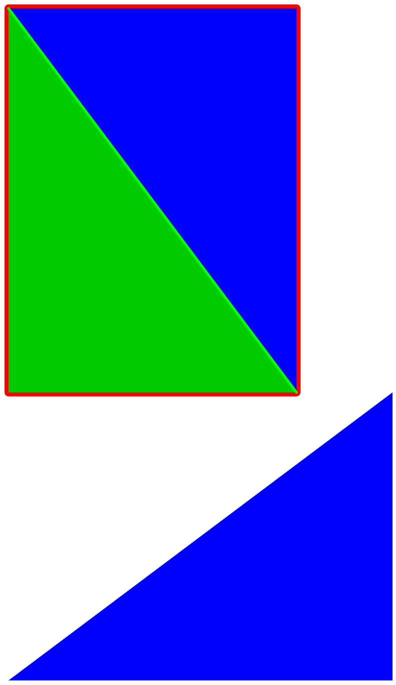

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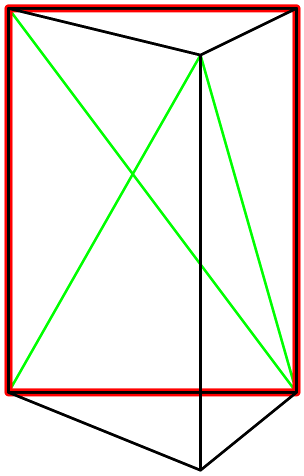

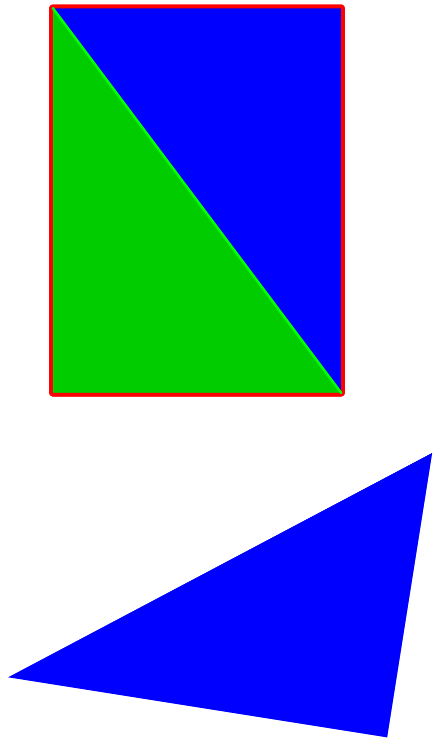

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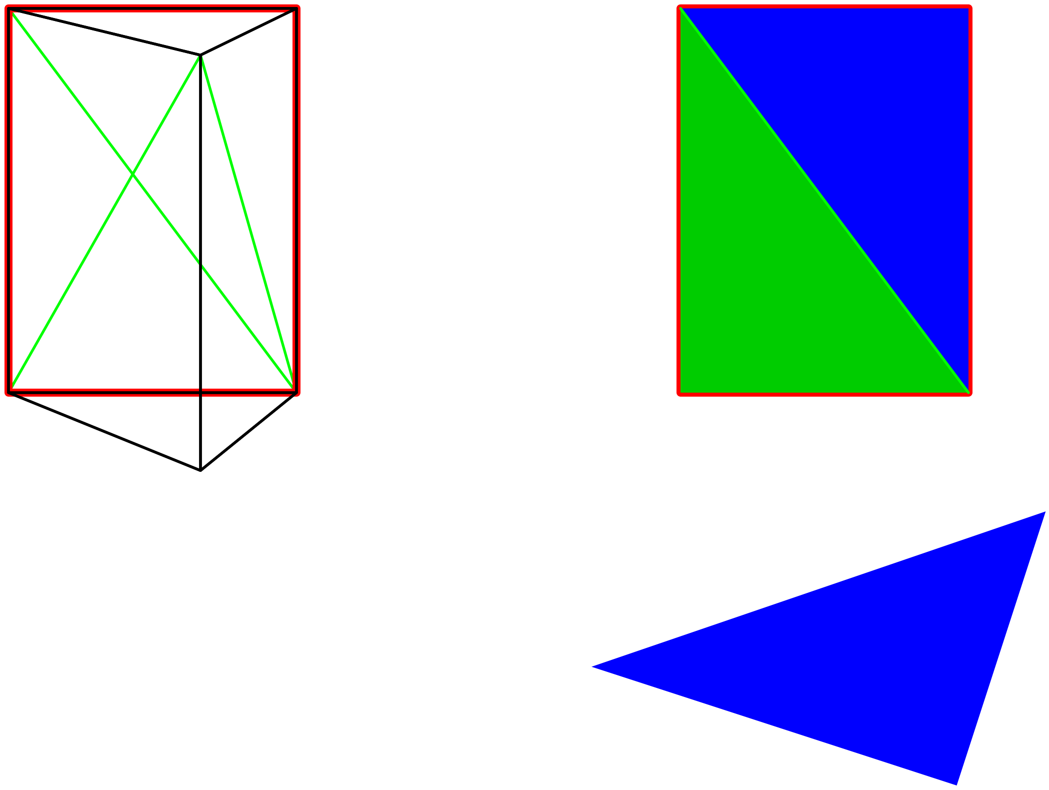

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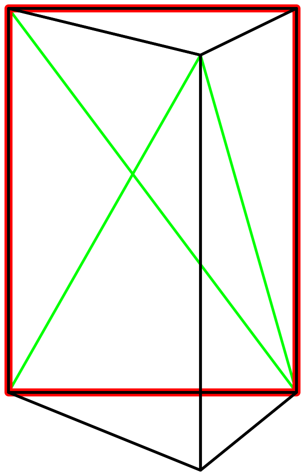

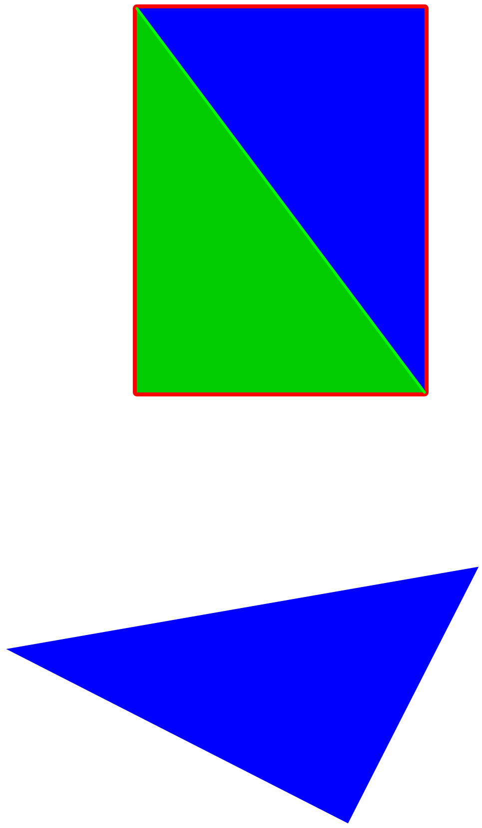

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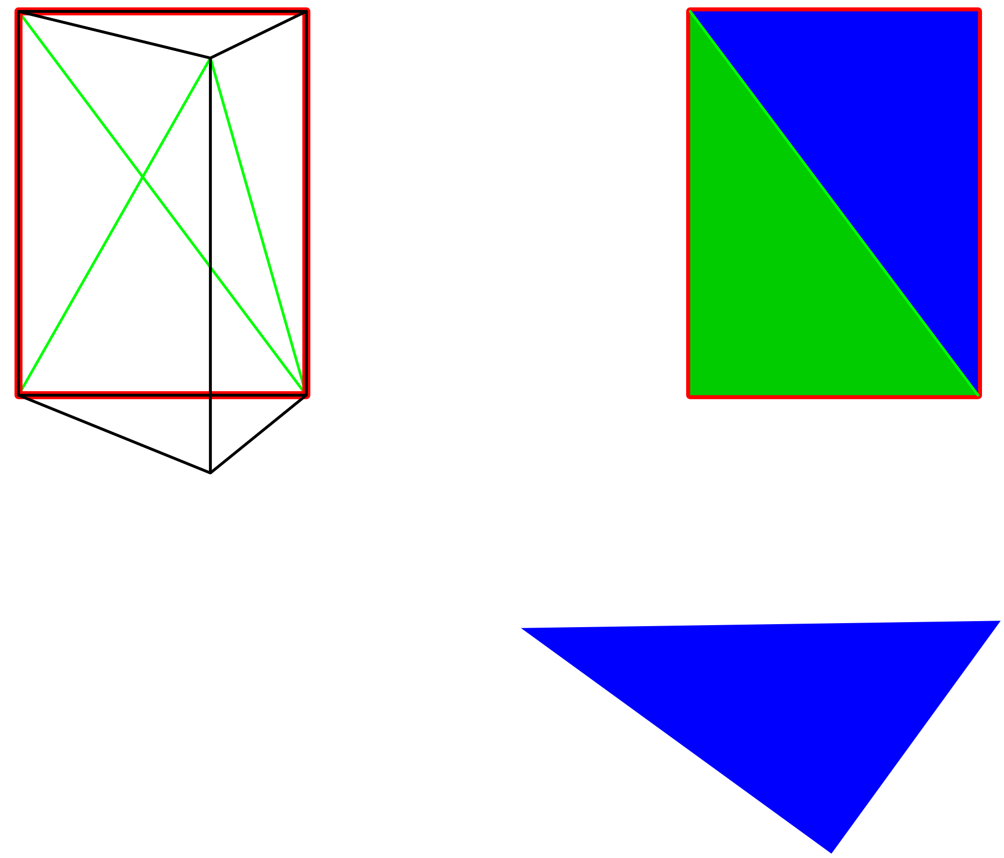

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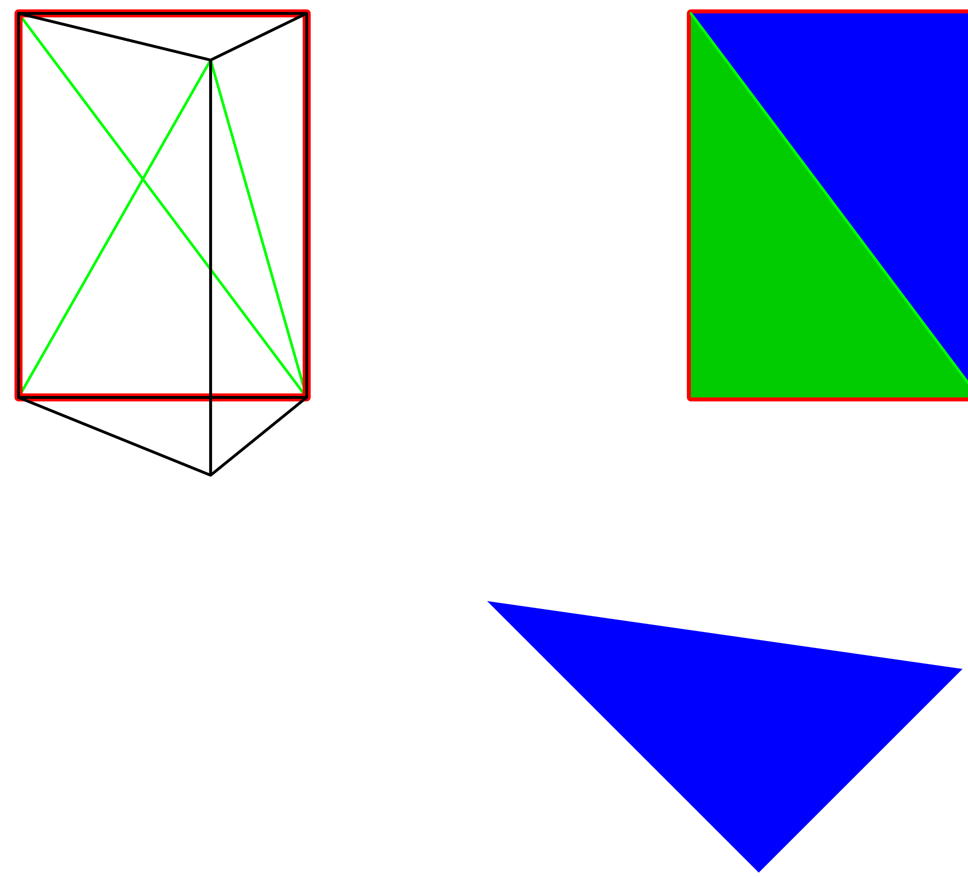

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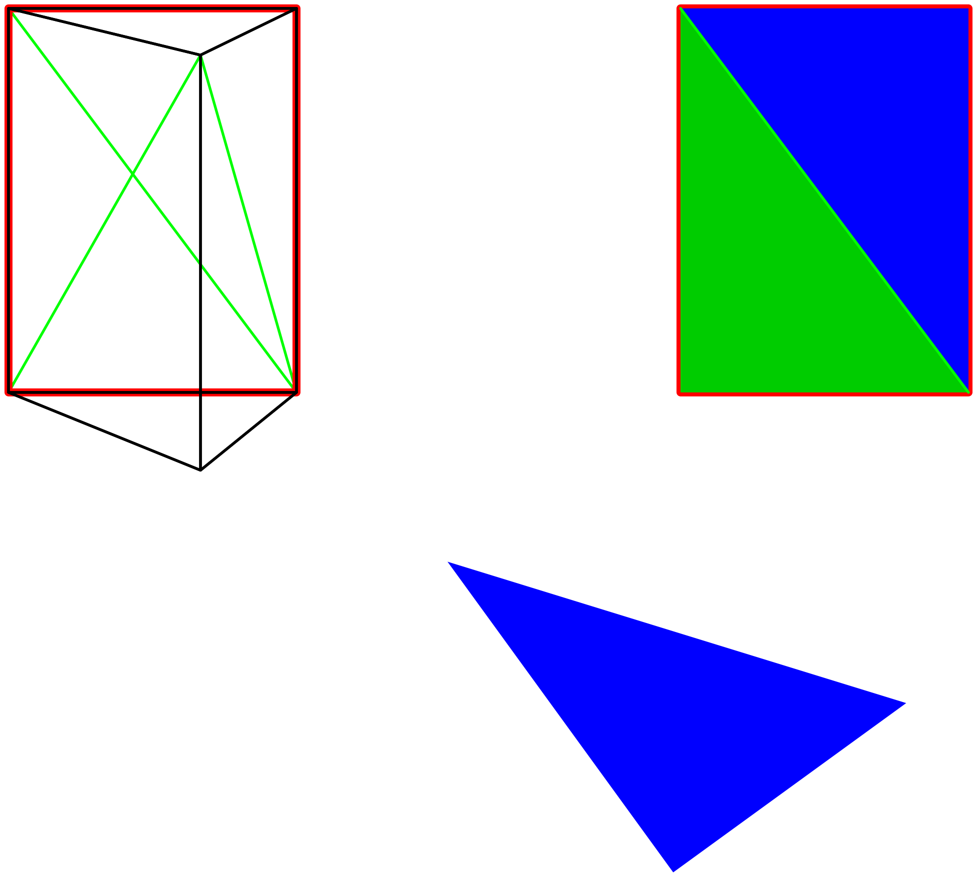

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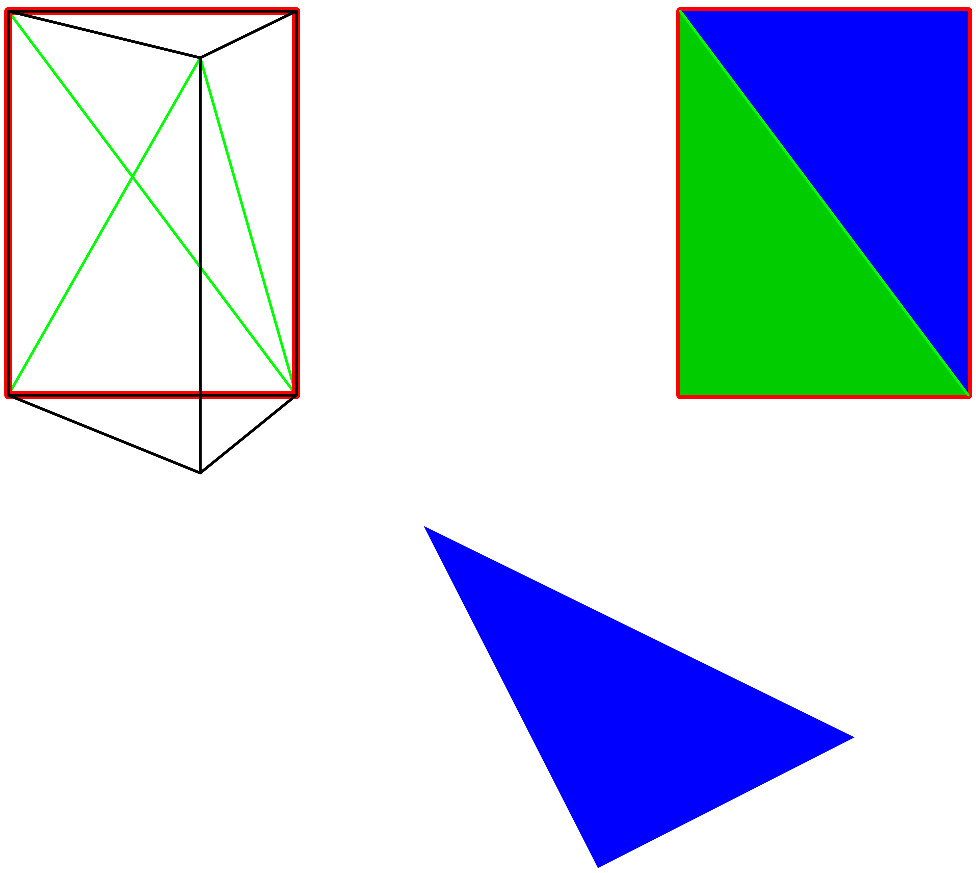

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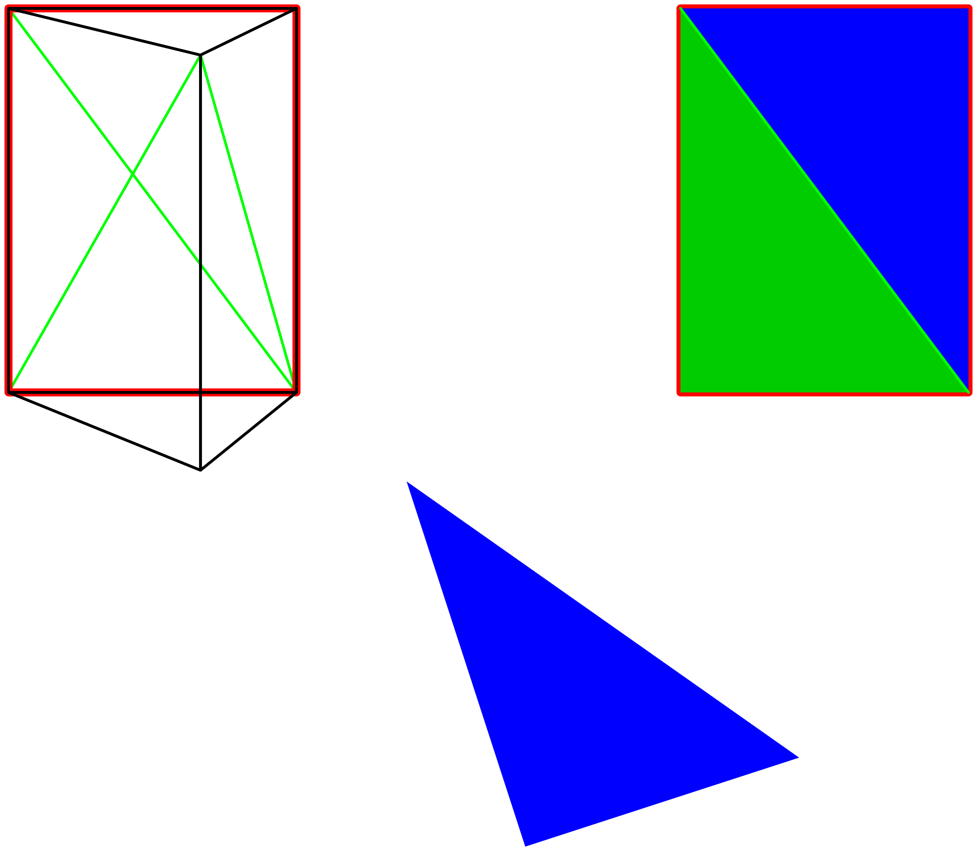

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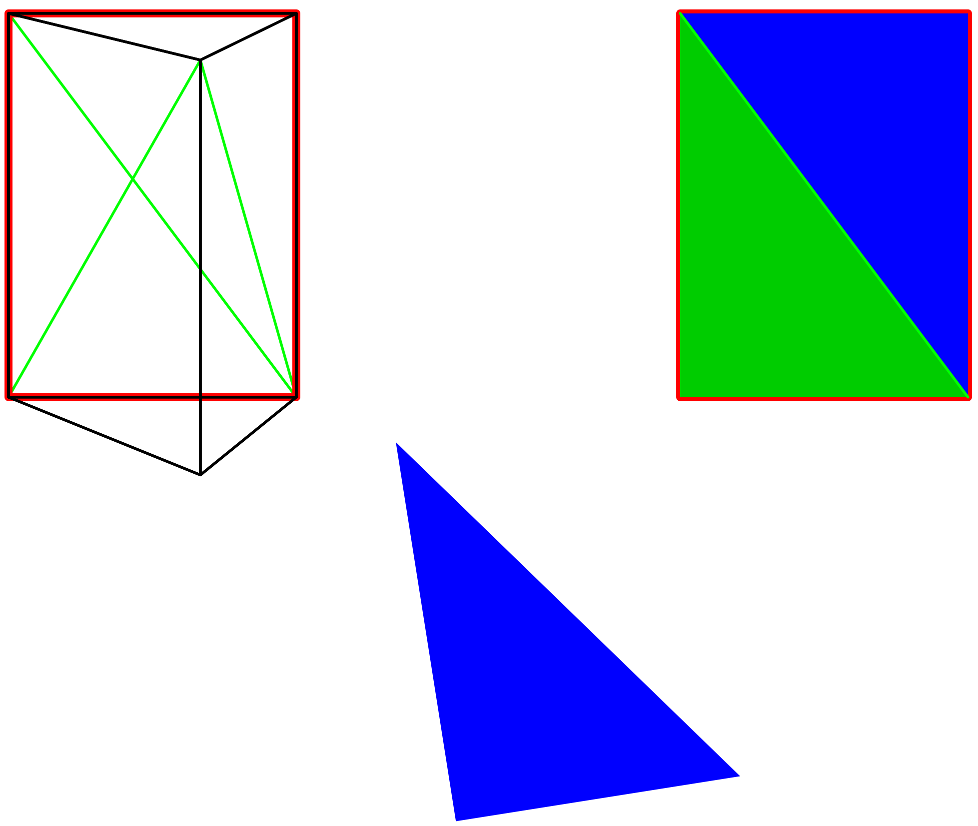

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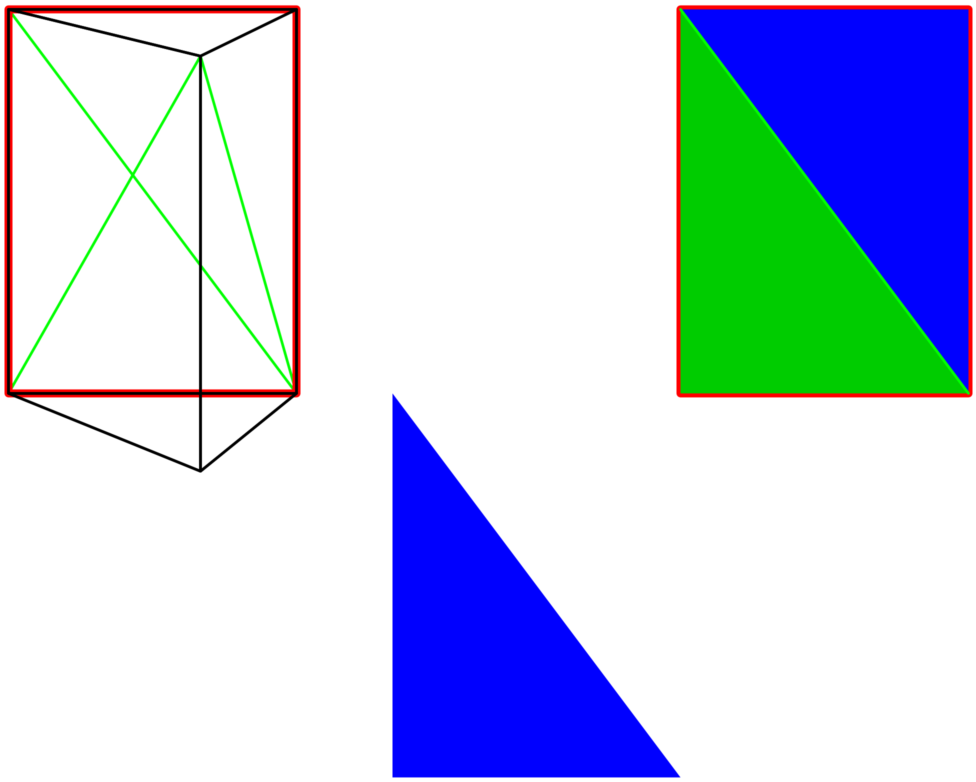

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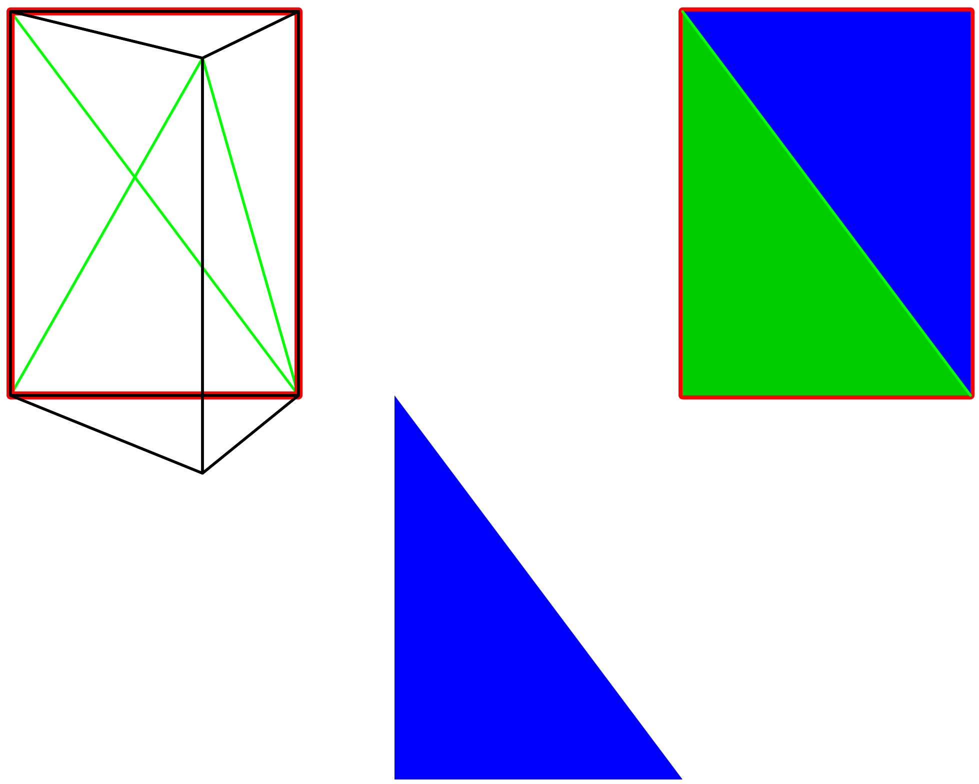

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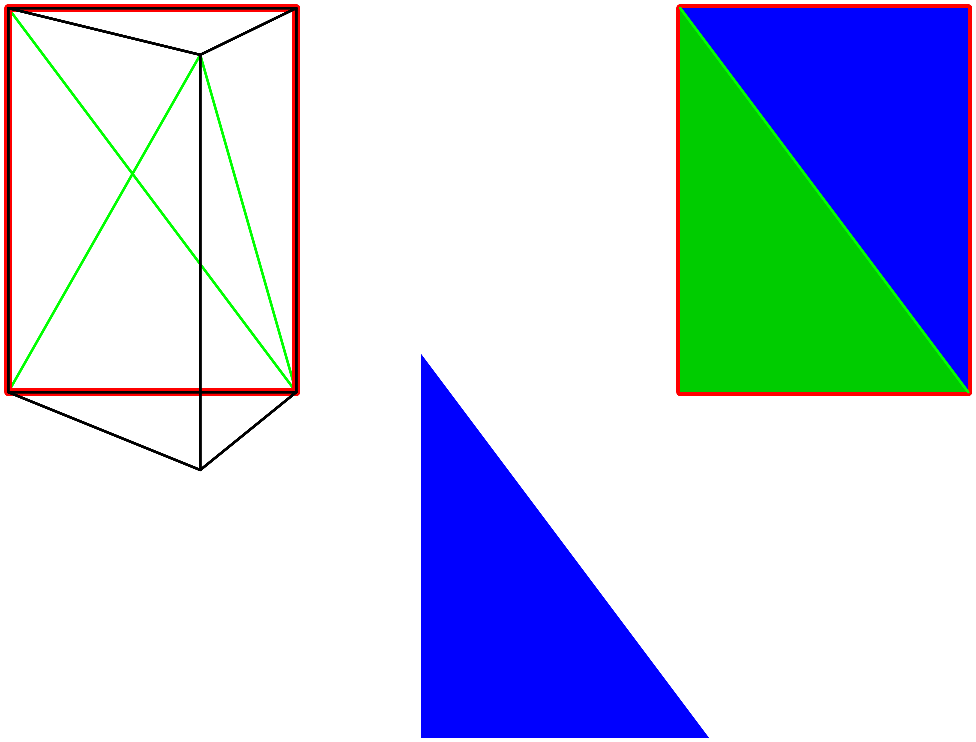

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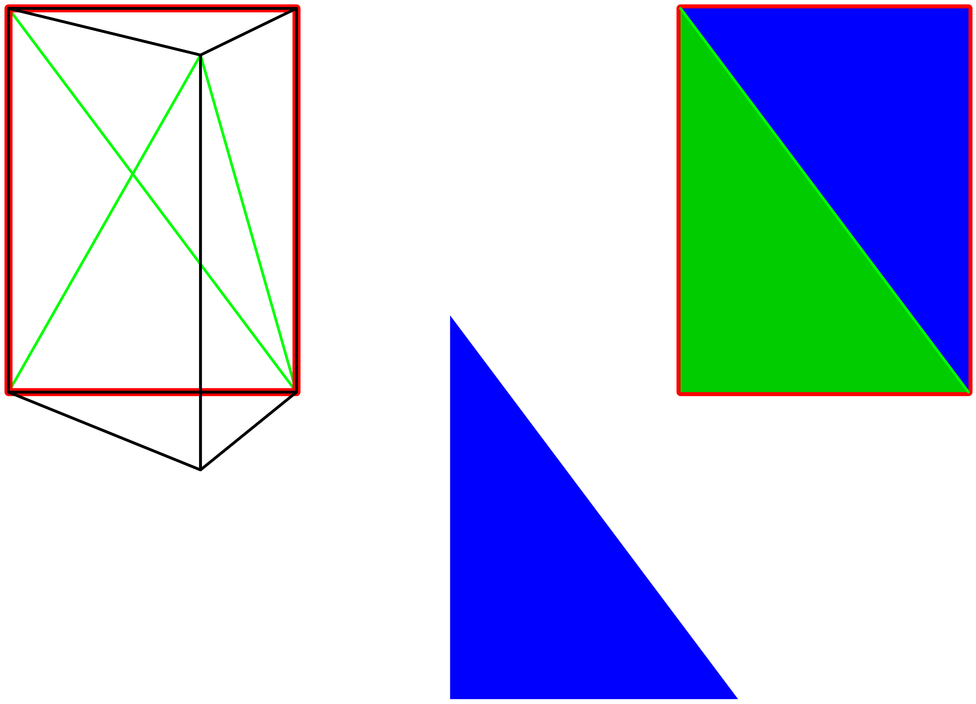

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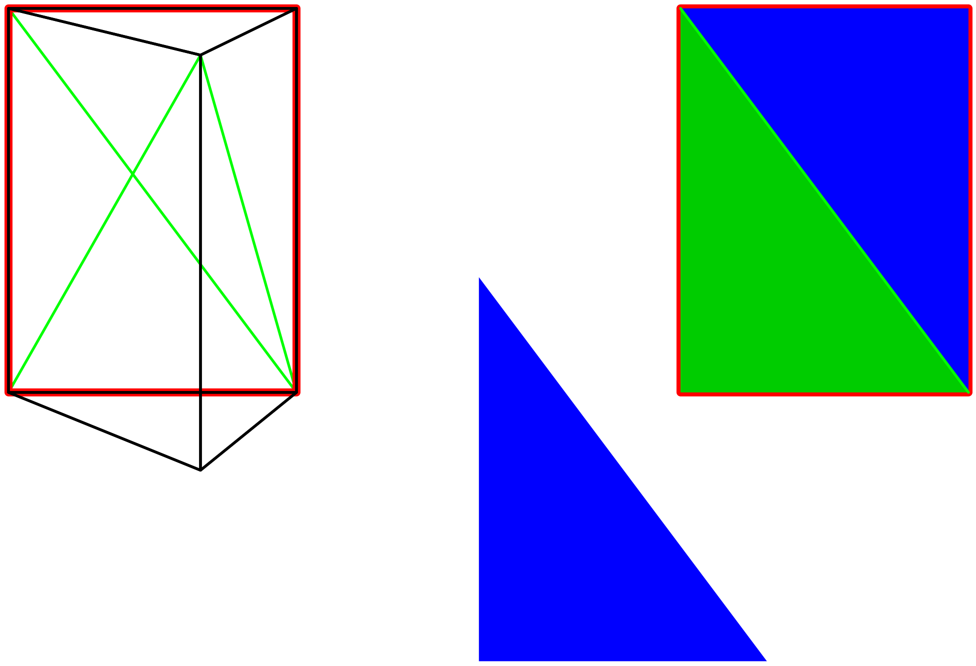

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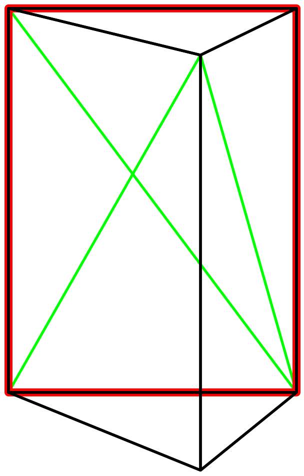

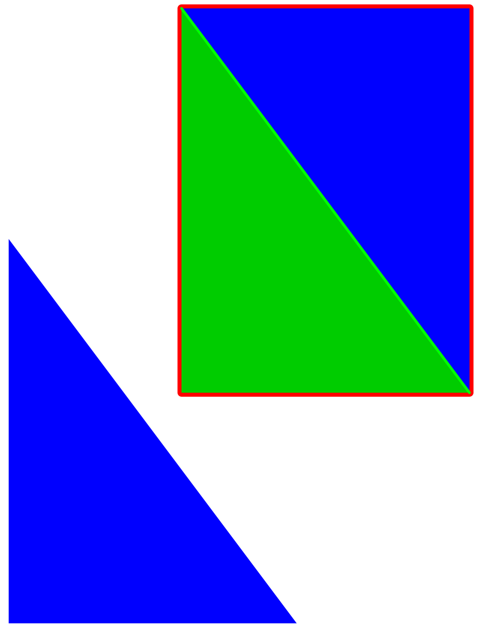

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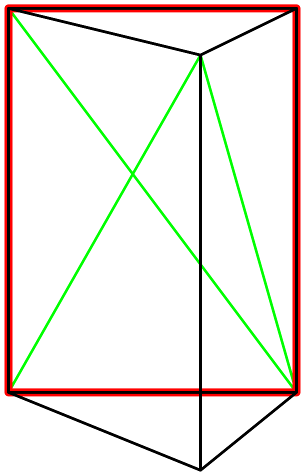

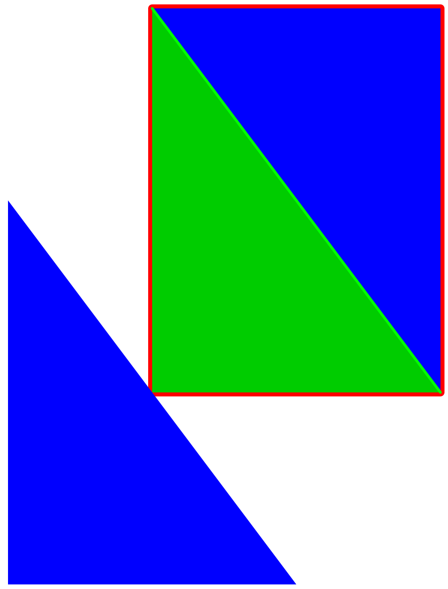

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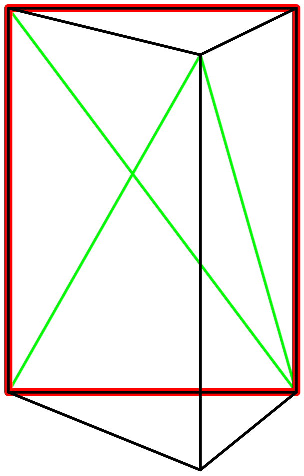

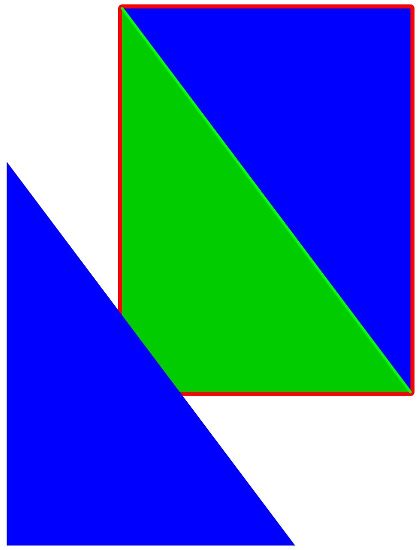

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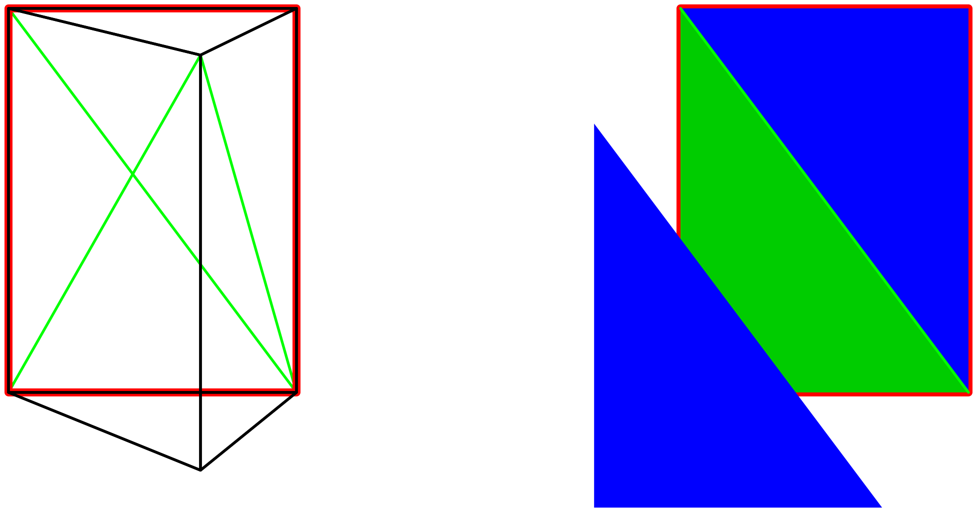

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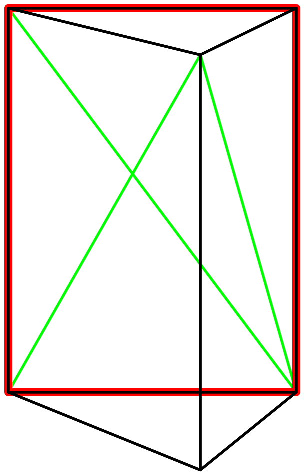

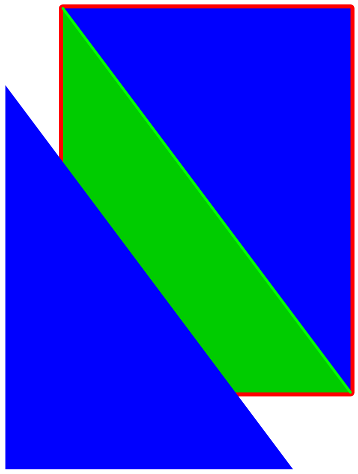

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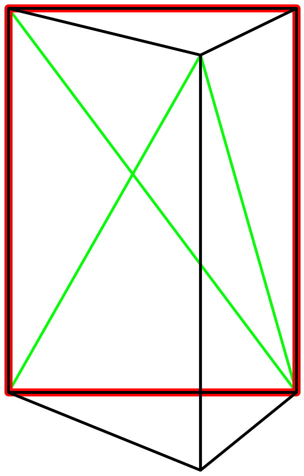

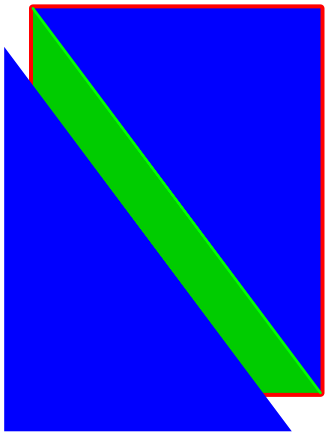

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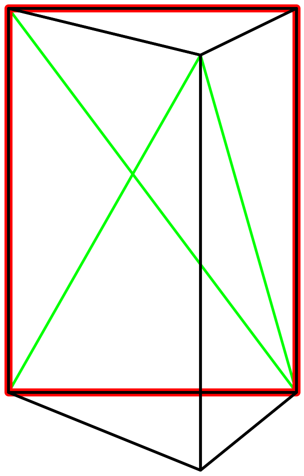

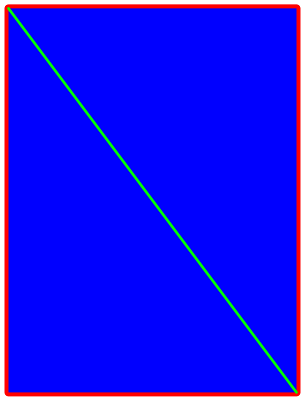

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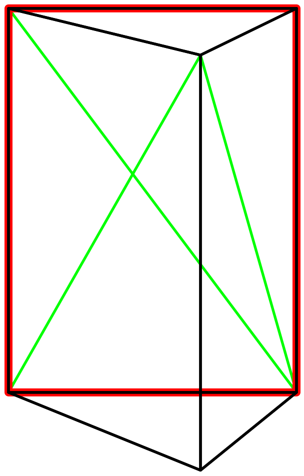

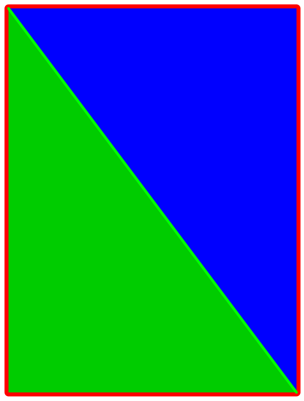

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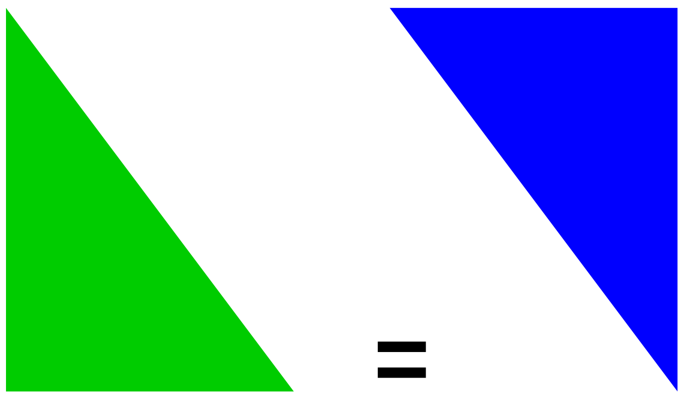

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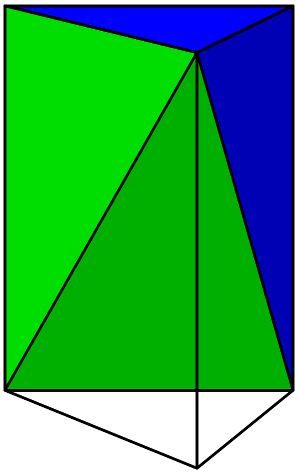

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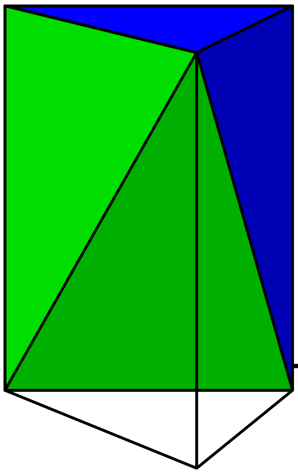

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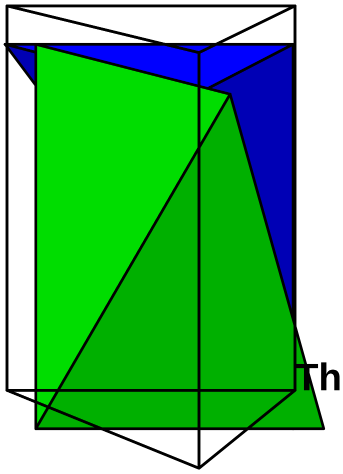

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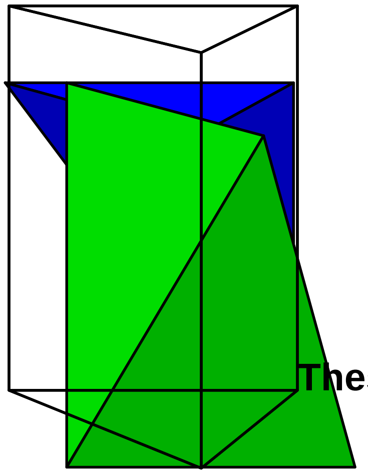

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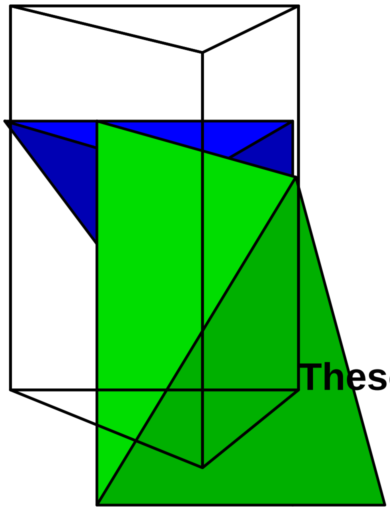

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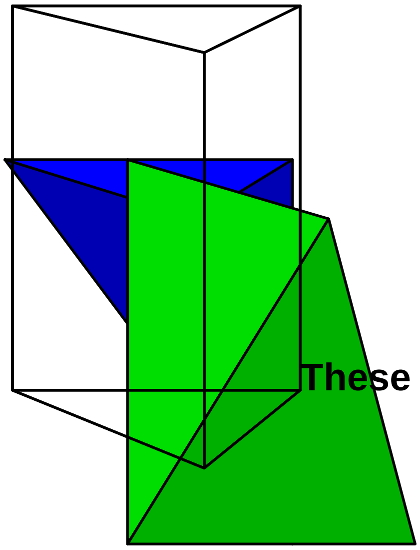

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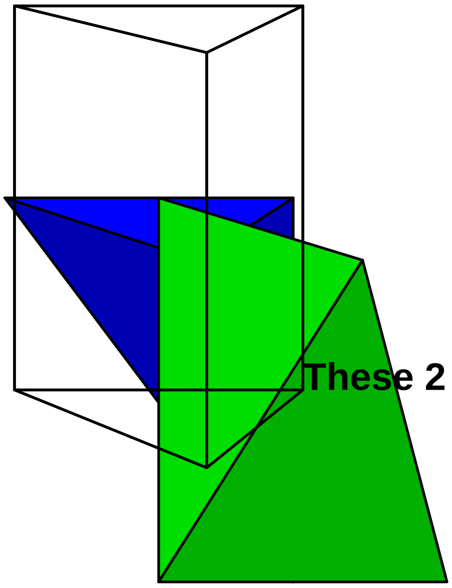

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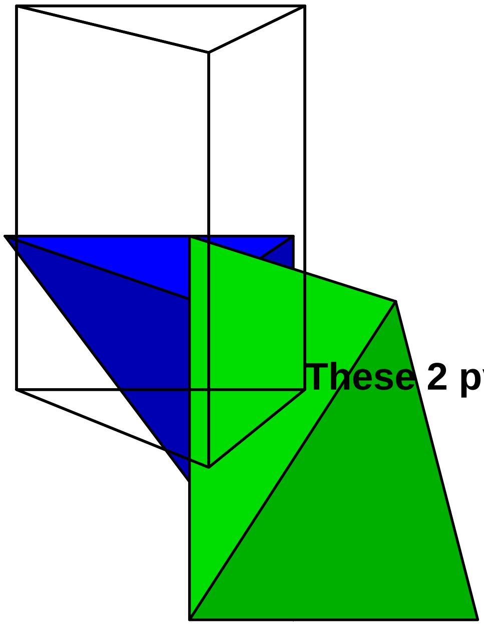

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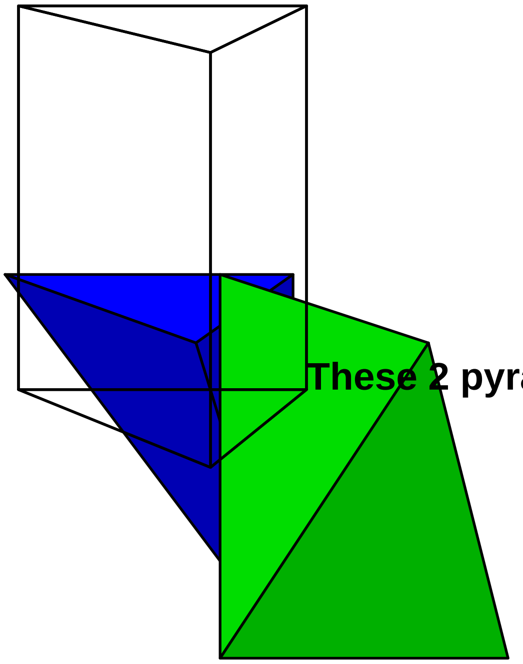

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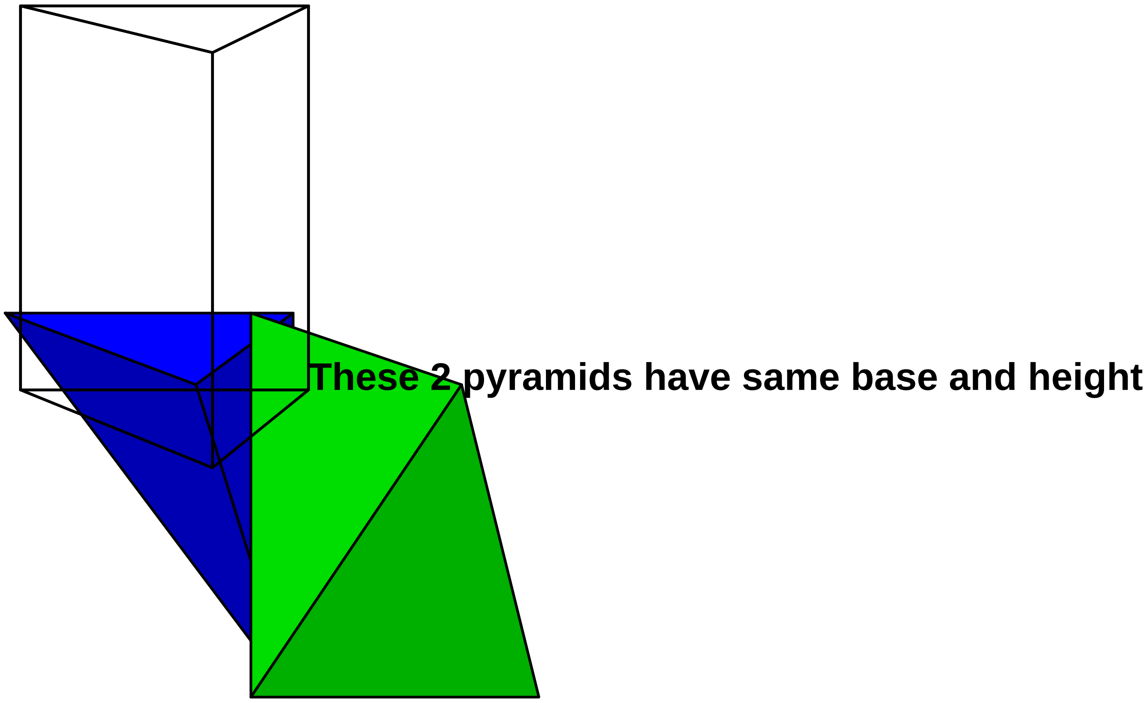

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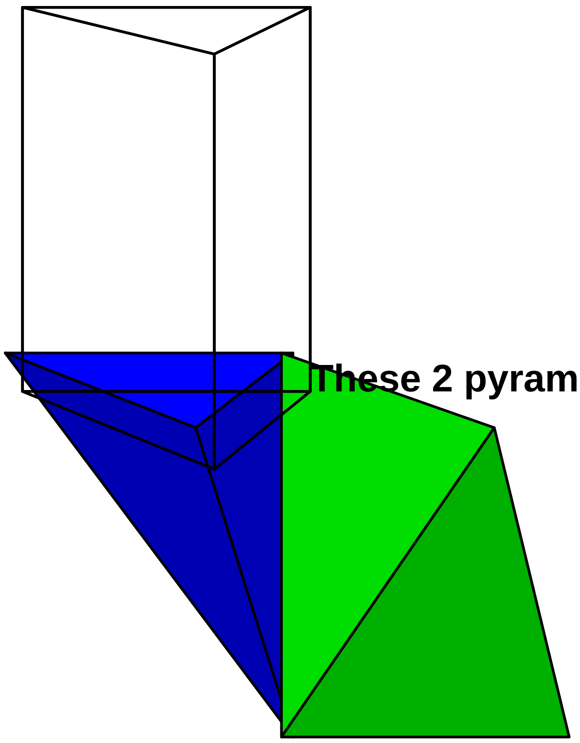

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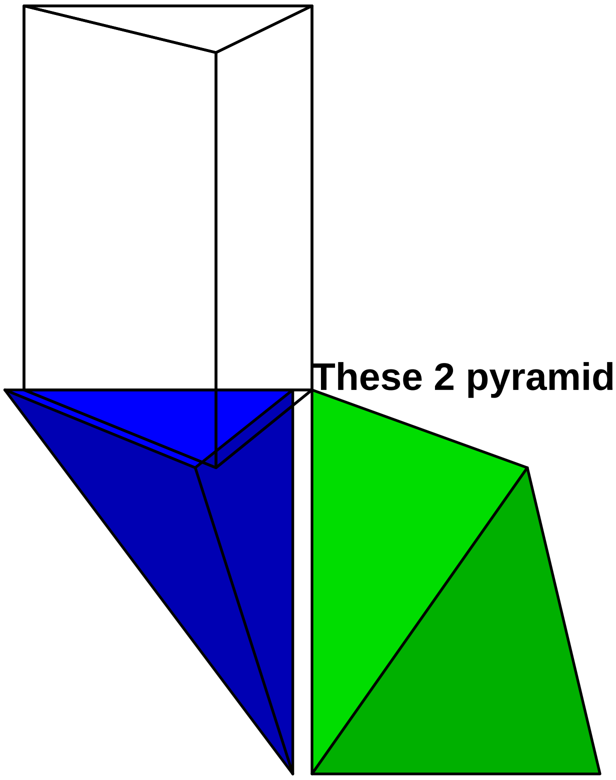

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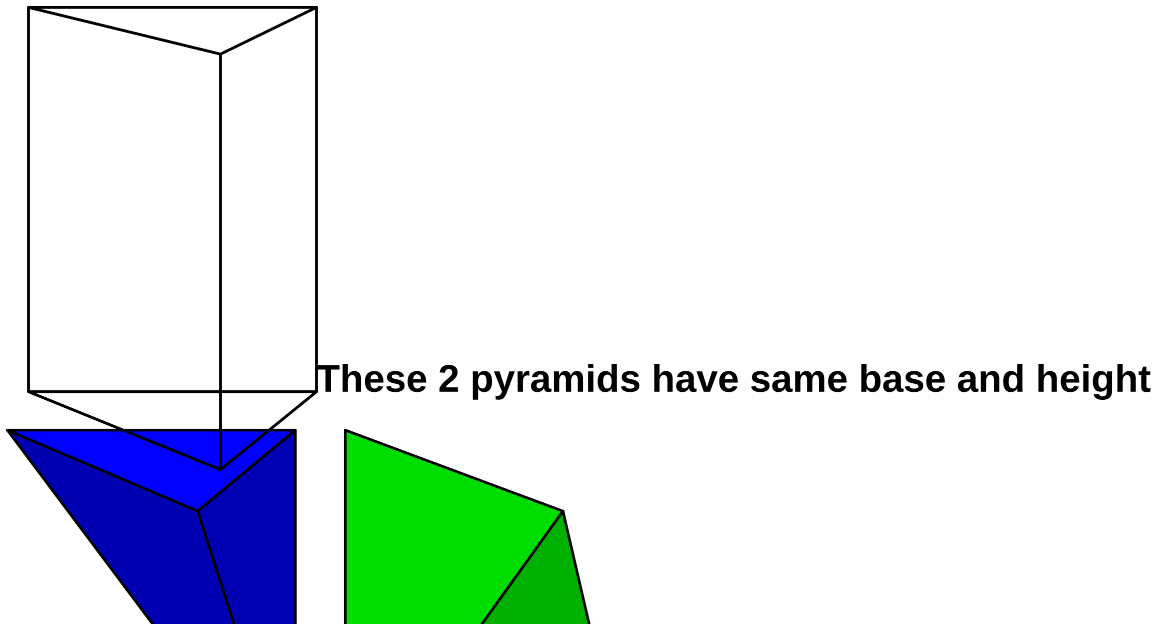

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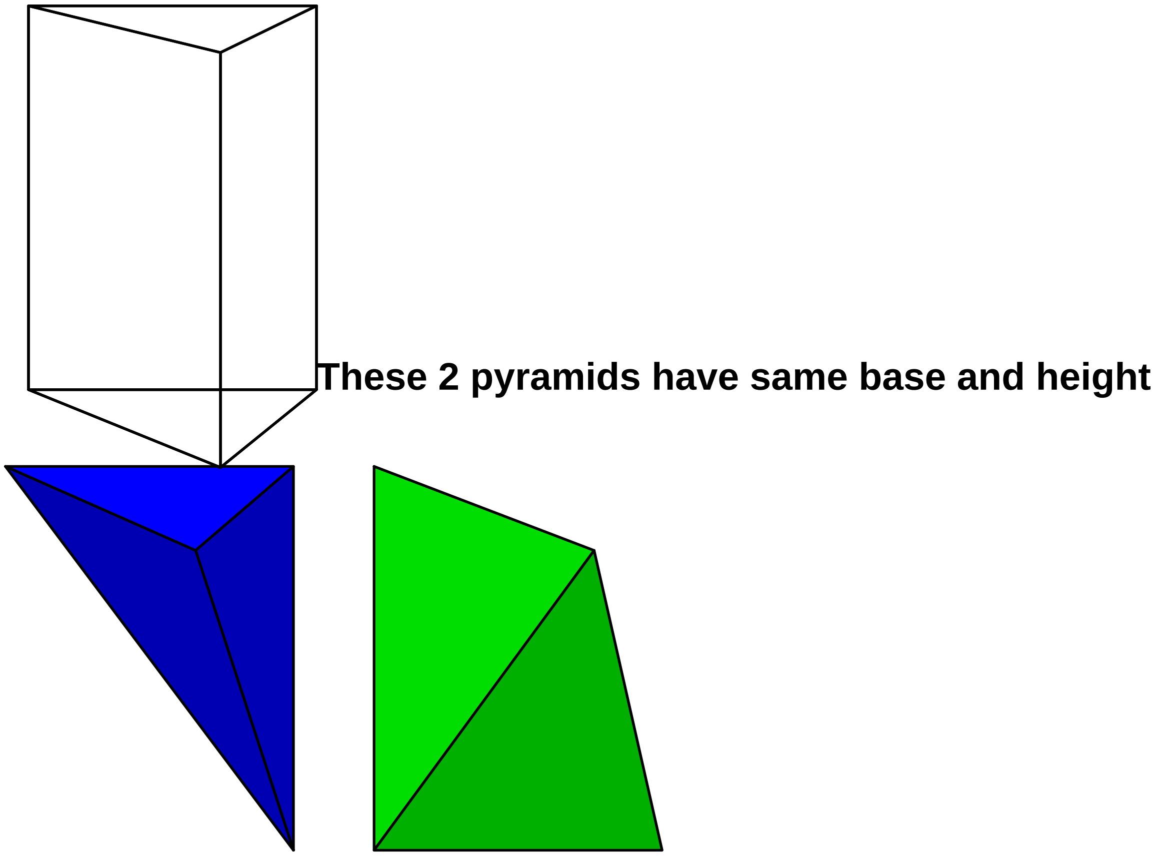

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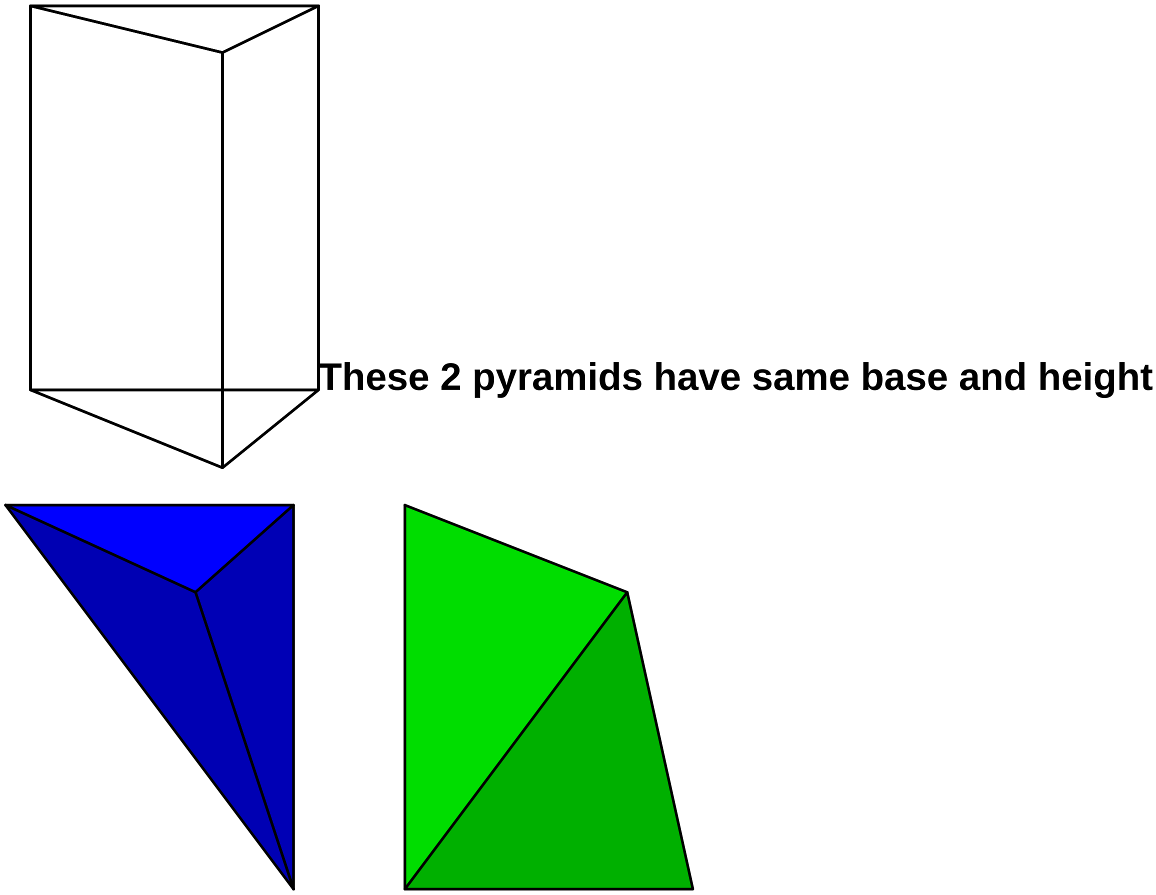

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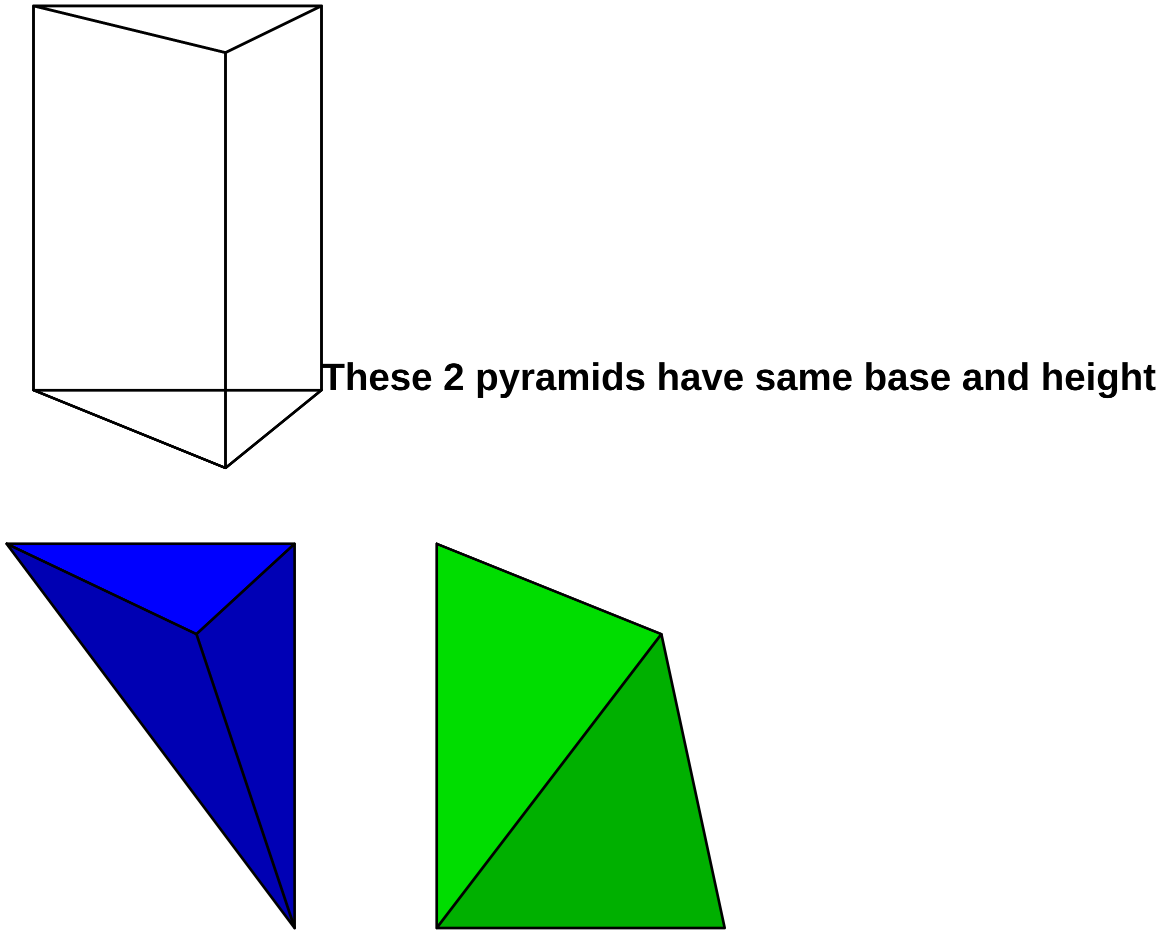

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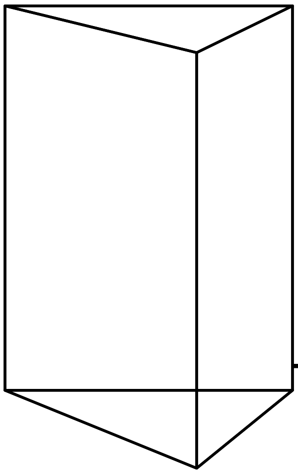
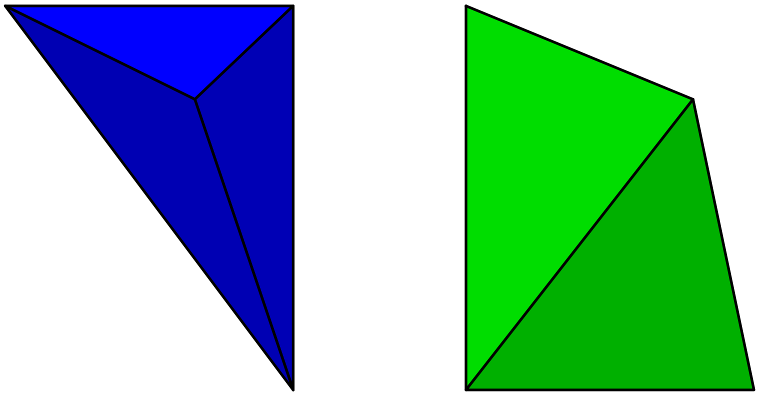


These 2 pyramids have same base and height



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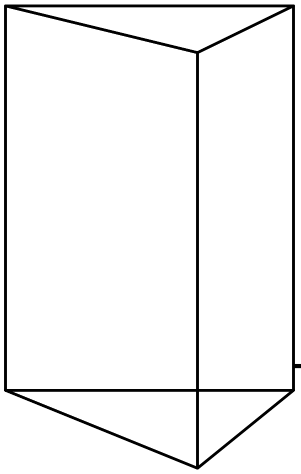

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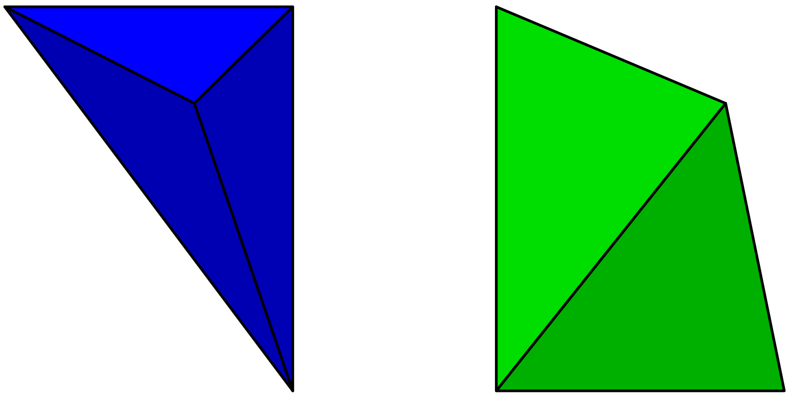

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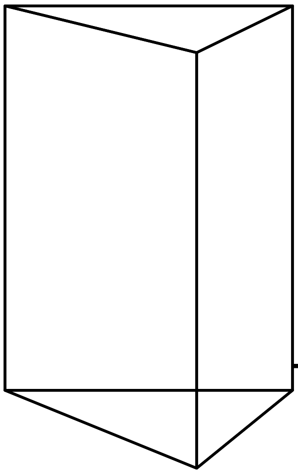

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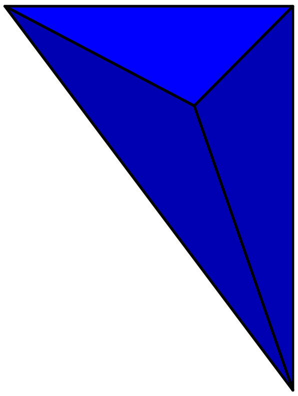

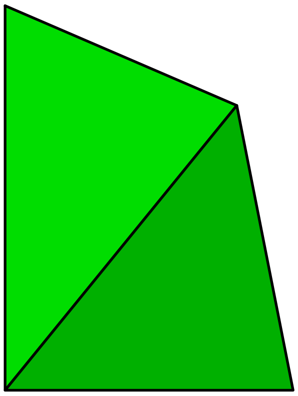

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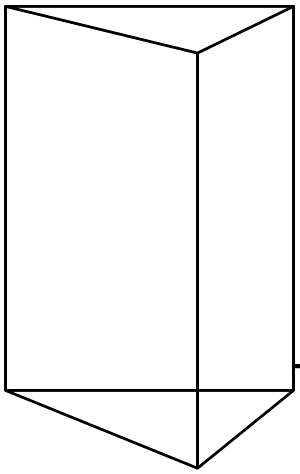

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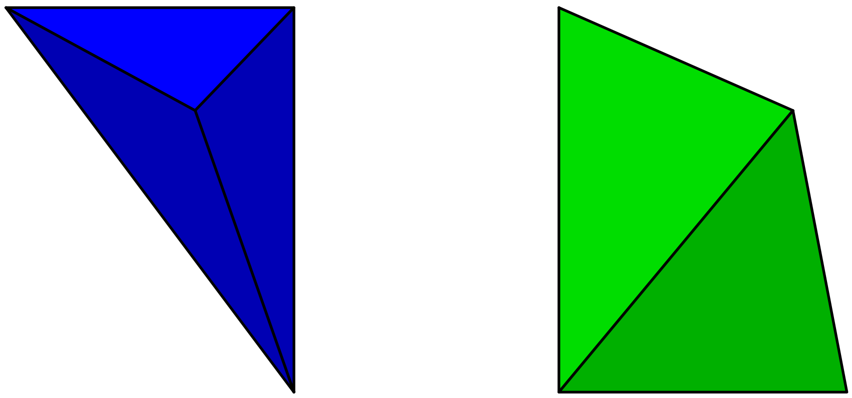

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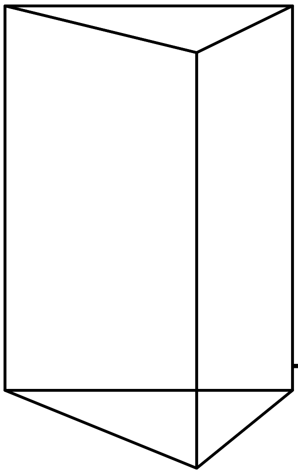
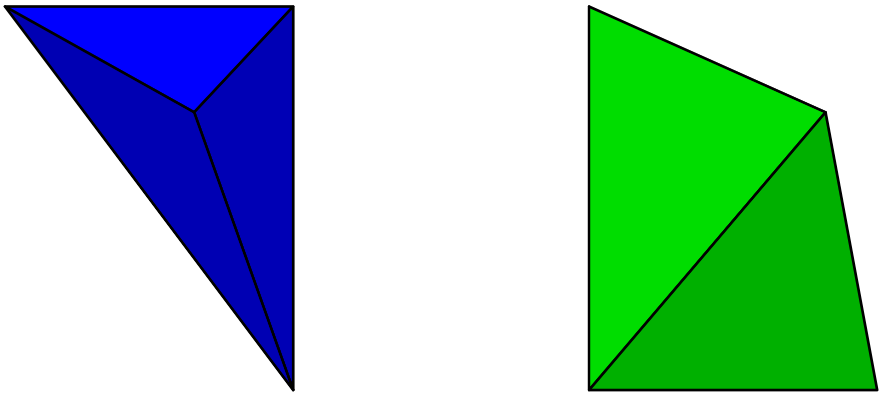


These 2 pyramids have same base and height



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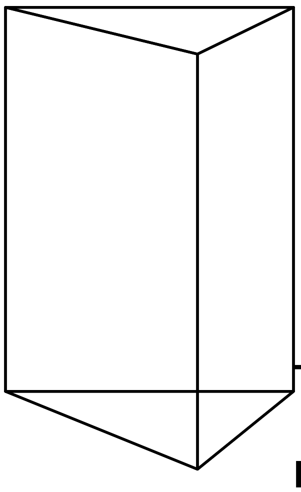
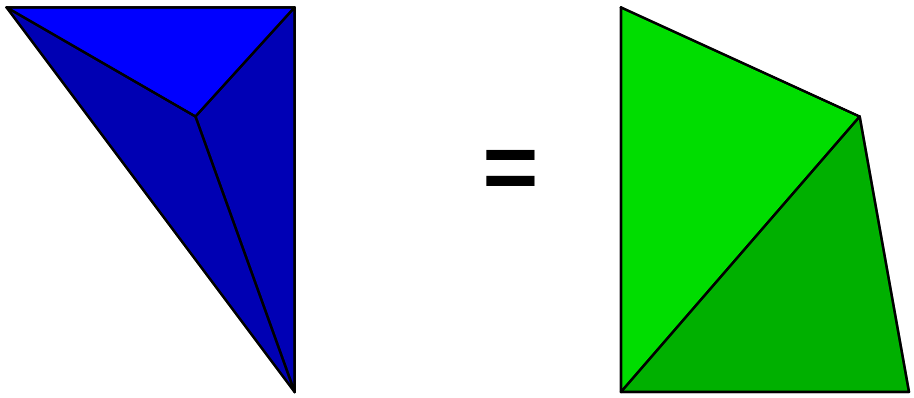


These 2 pyramids have same base and height

By Eulid VII.4 & 5

So



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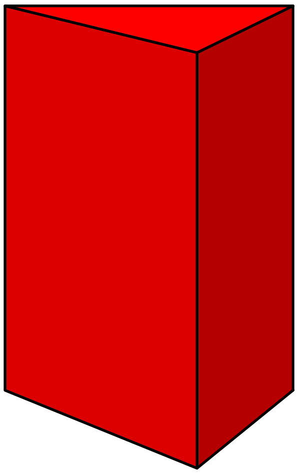
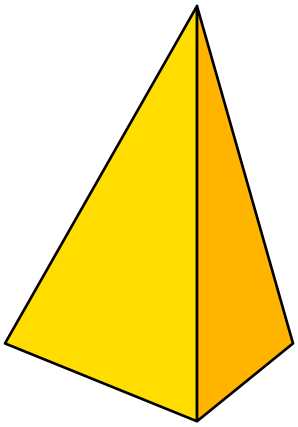


= Volume <prism> = Base * height

=



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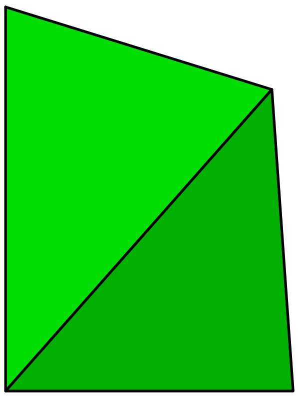

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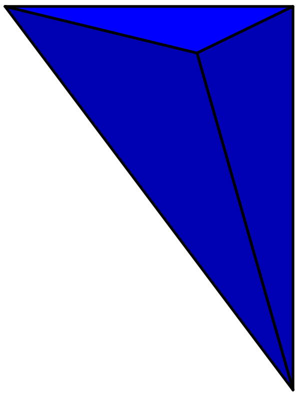

AND