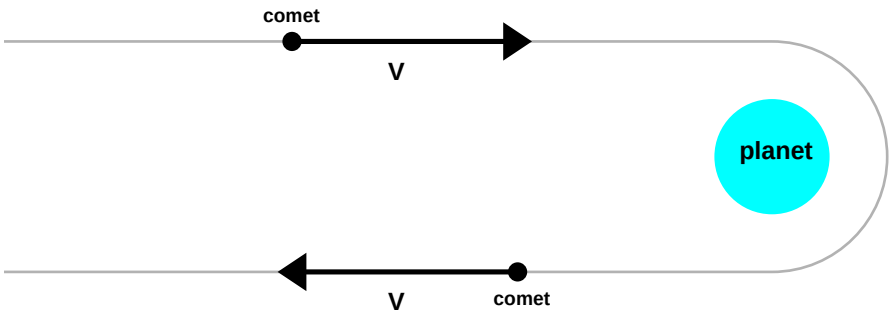
V = initial speed of comet
U = orbital speed of planet



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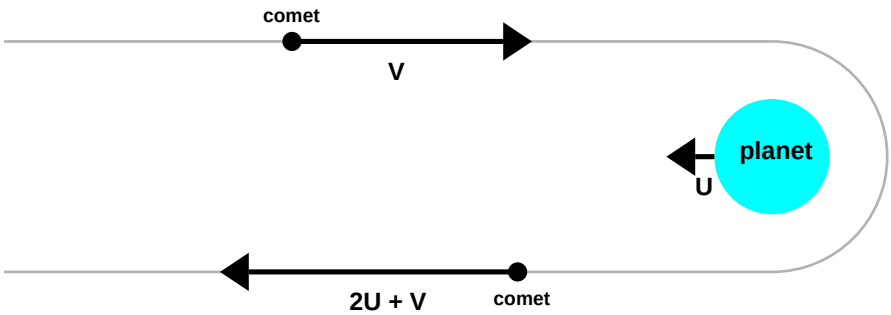

V = initial speed of comet
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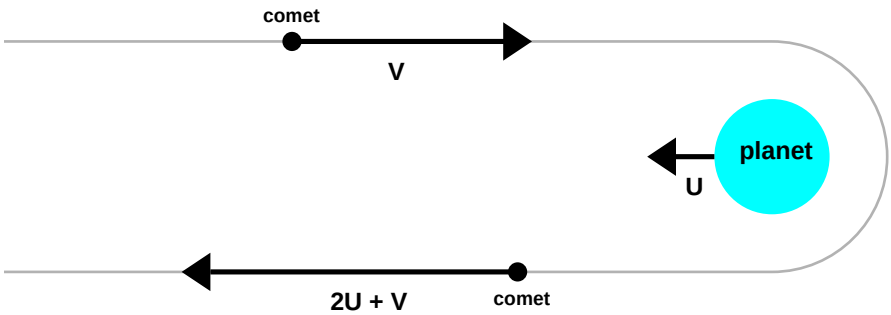

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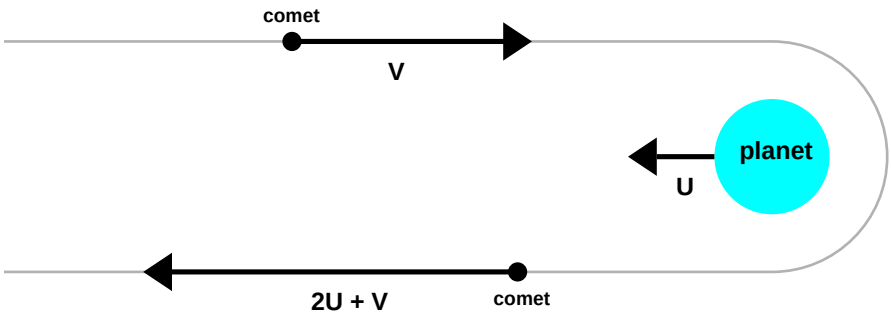

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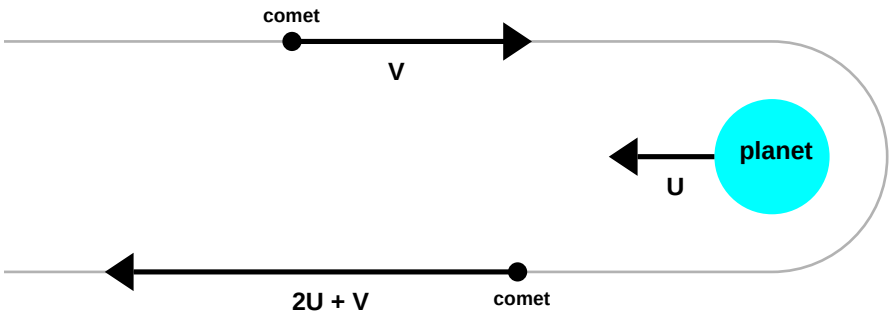
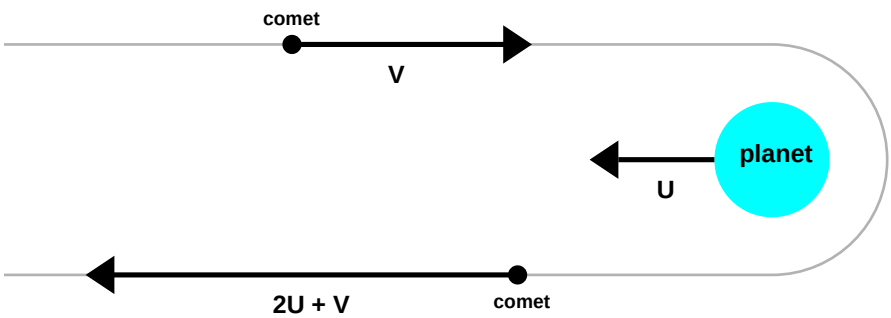
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