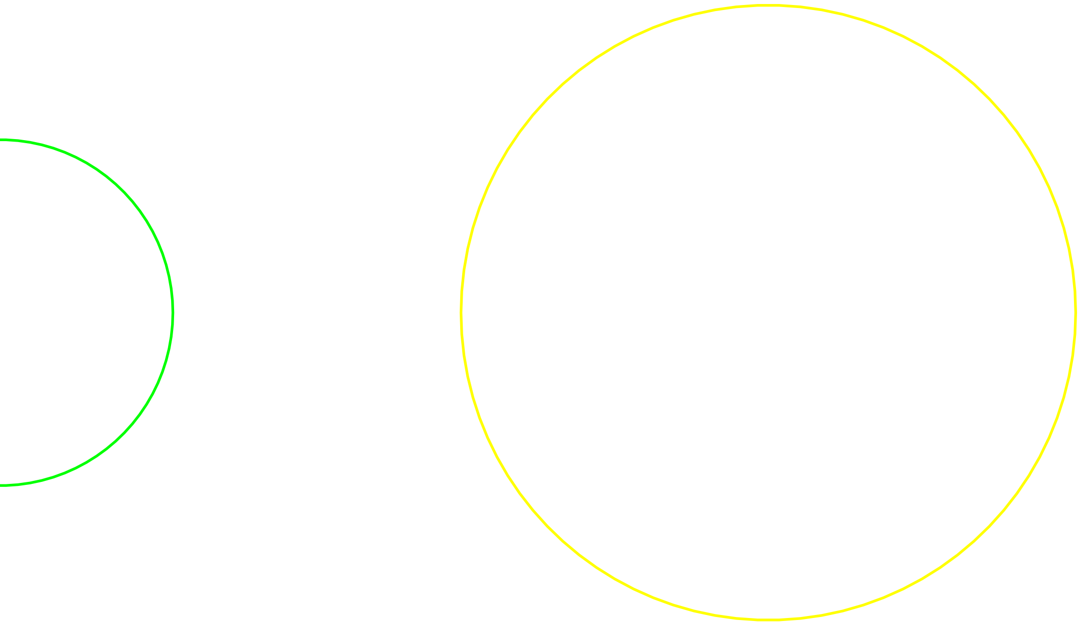
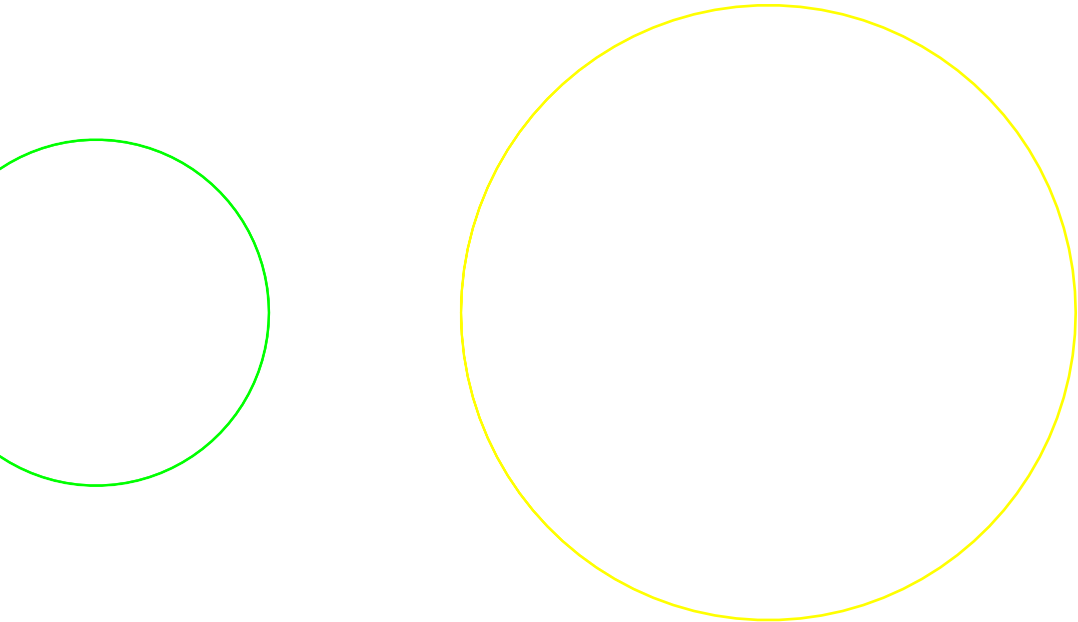
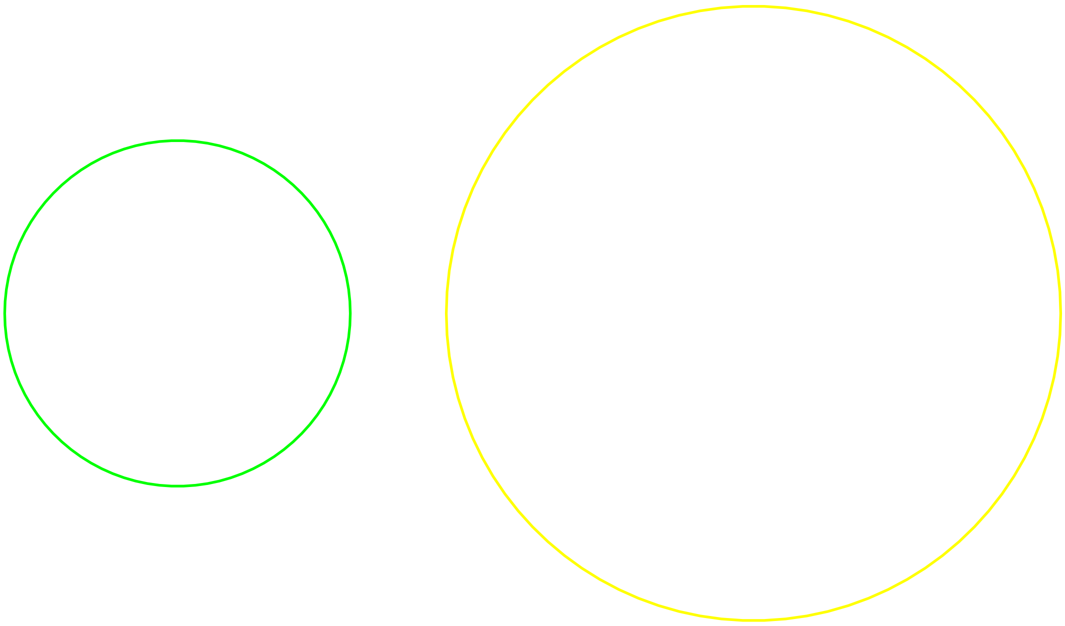
A large cycle



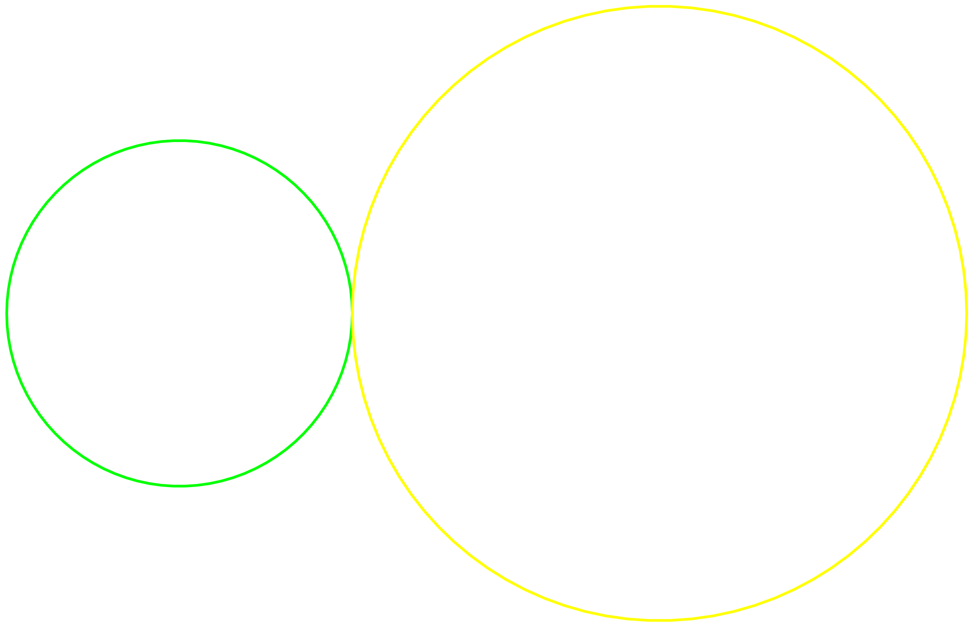
A large cycle



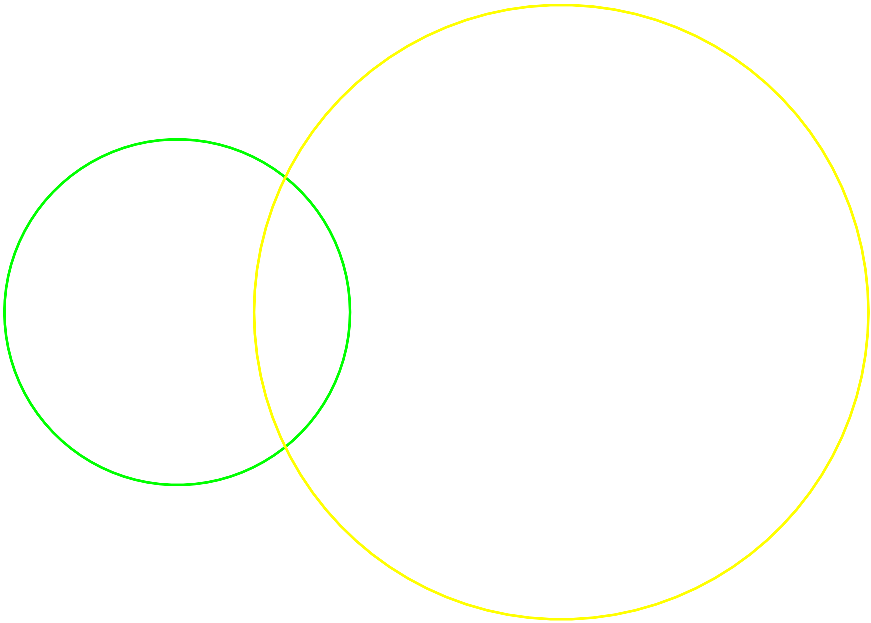
A large cycle



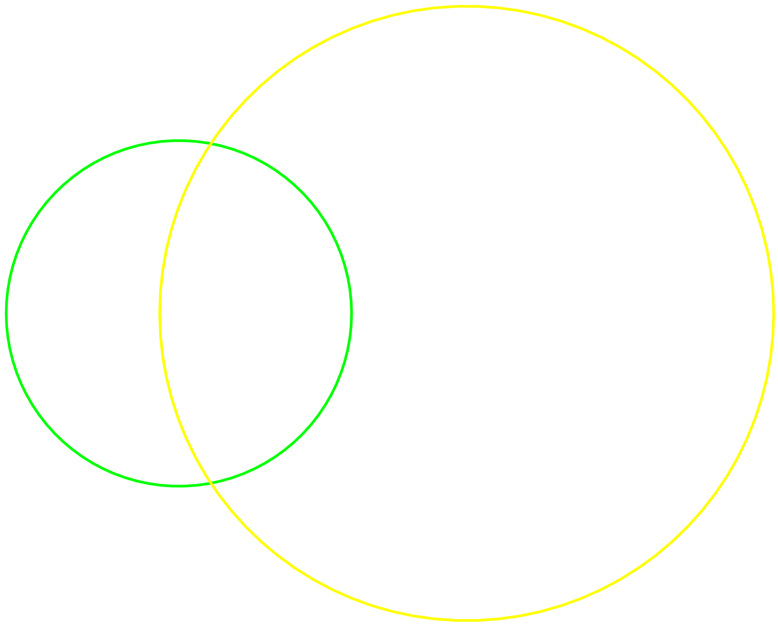
A large cycle



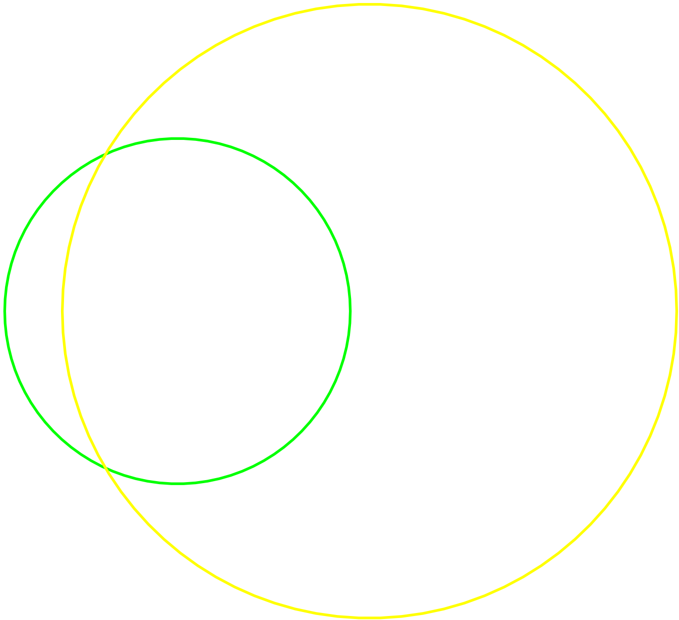
A large cycle



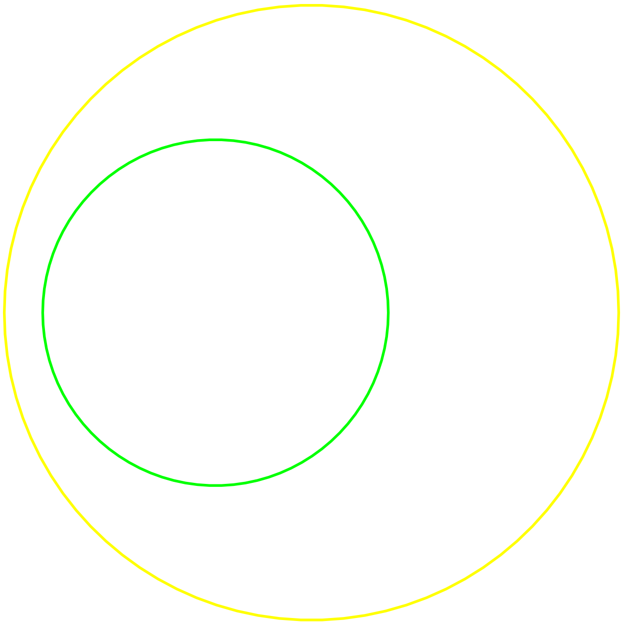
A large cycle



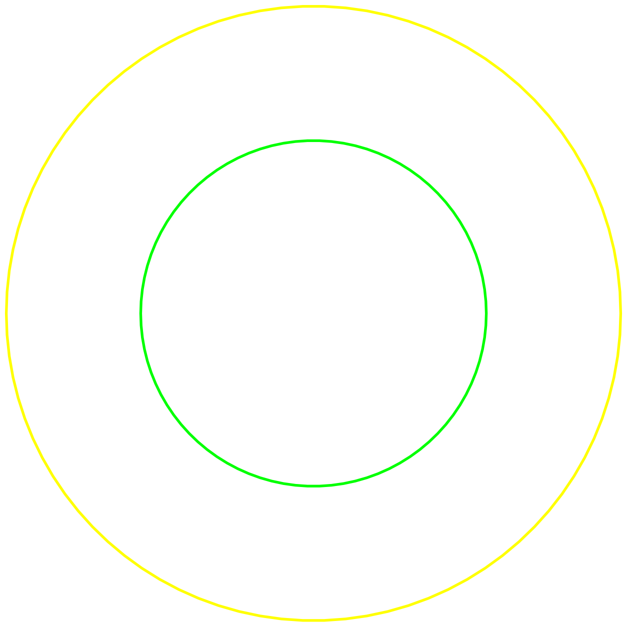
A large cycle



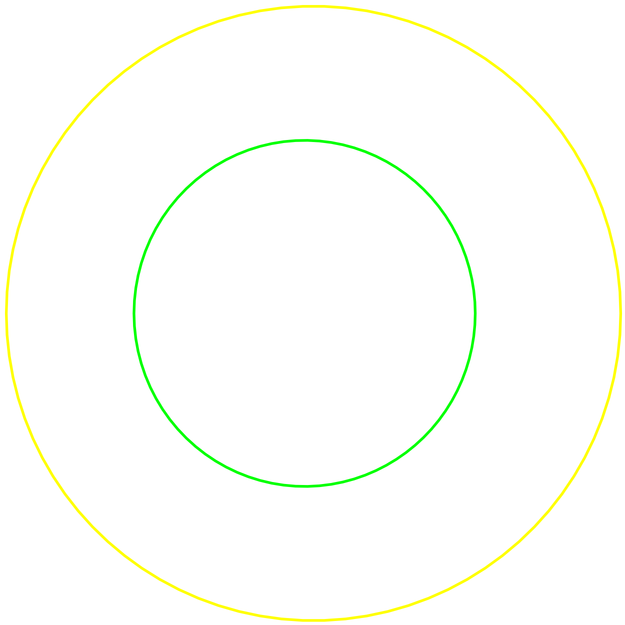
A large cycle



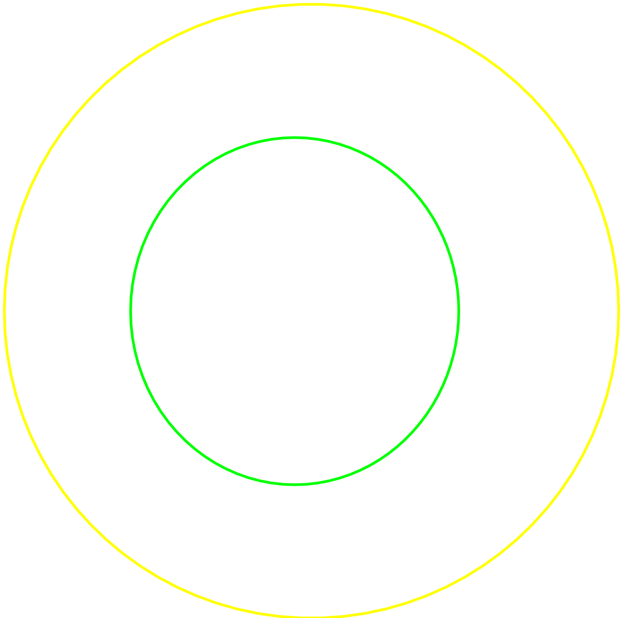
A large cycle



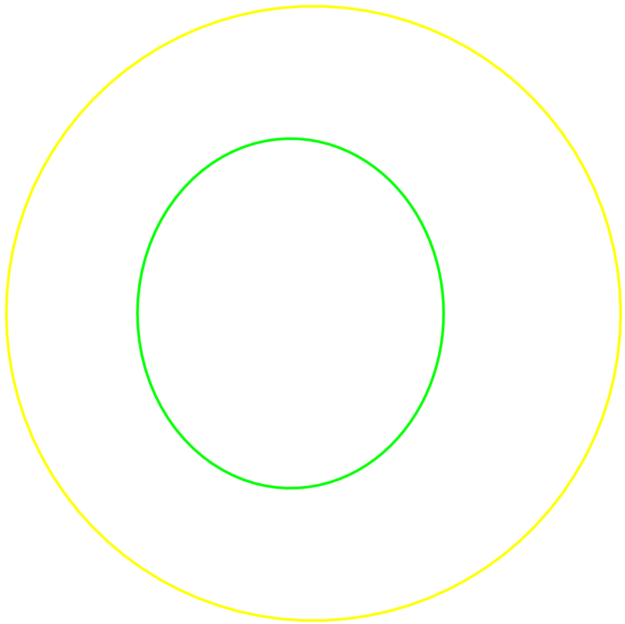
A large cycle



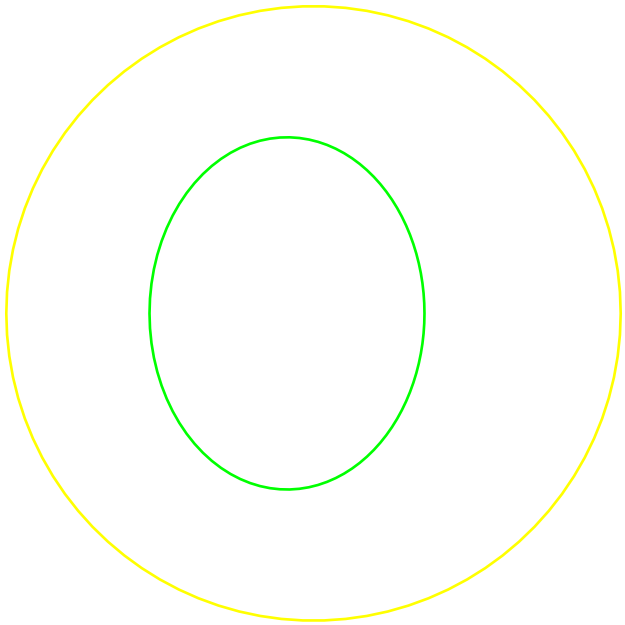
A large cycle



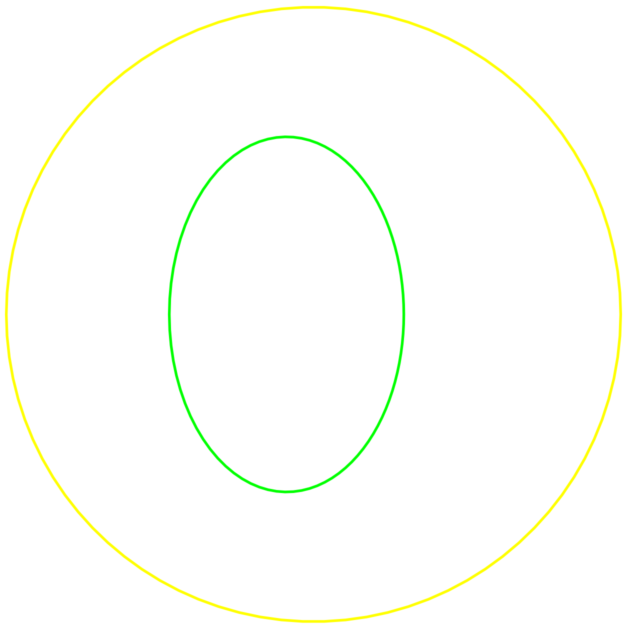
A large cycle



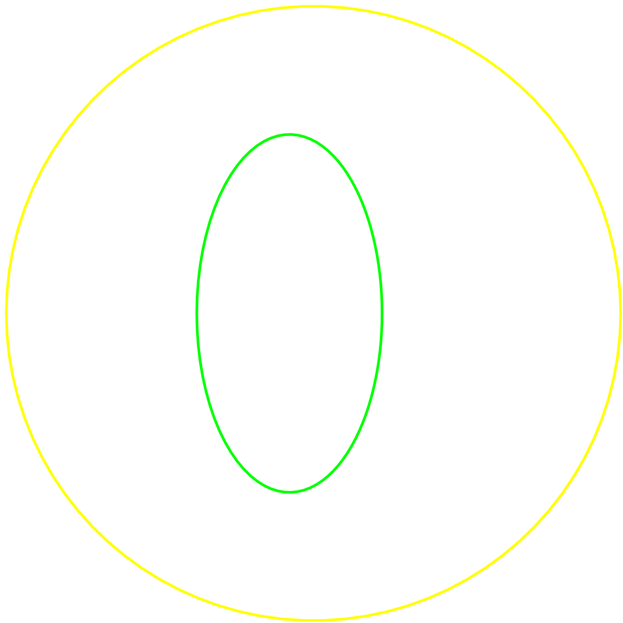
A large cycle



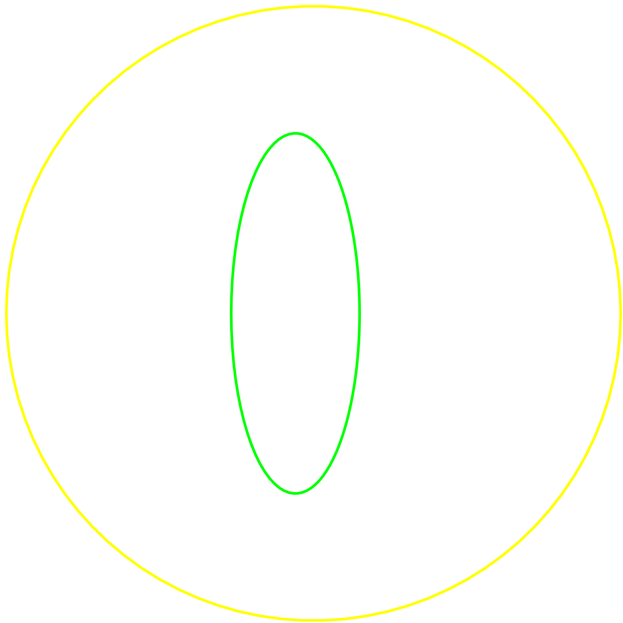
A large cycle



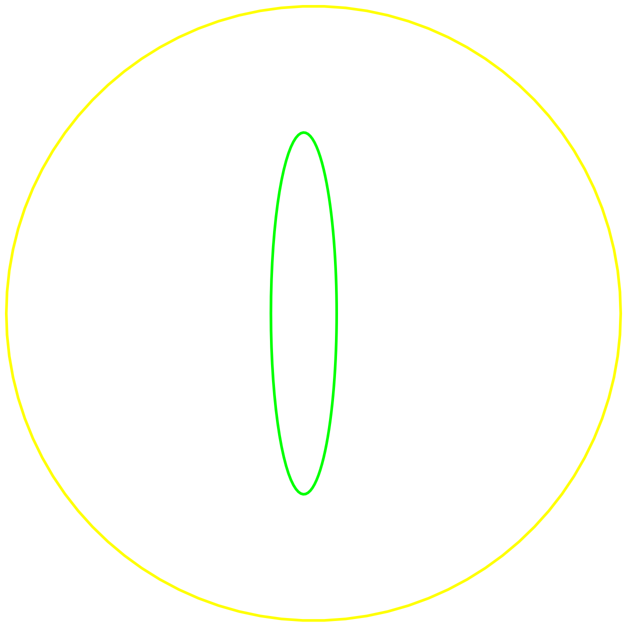
A large cycle



A large cycle

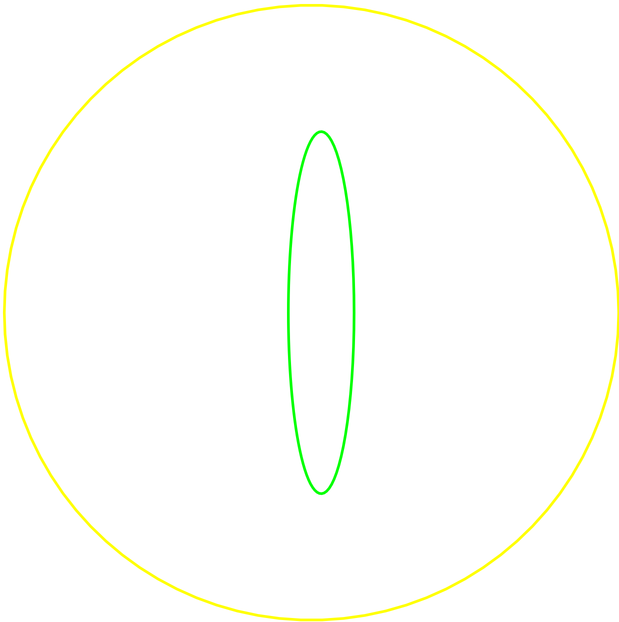


A large cycle



A large cycle

A large cycle



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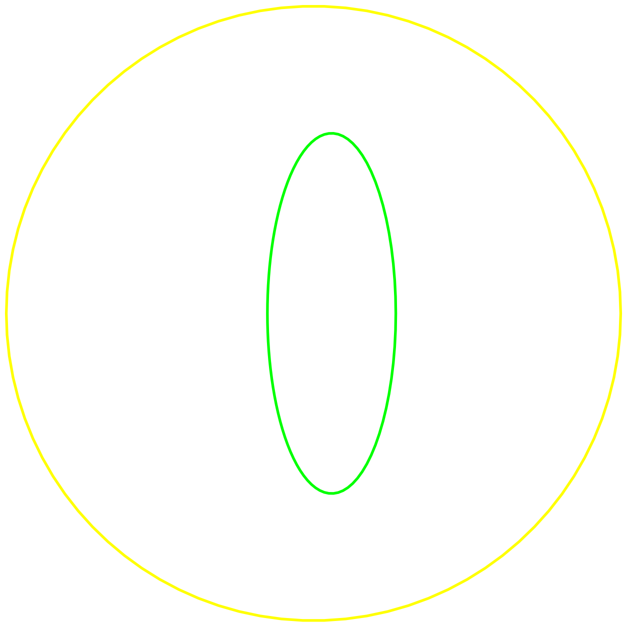

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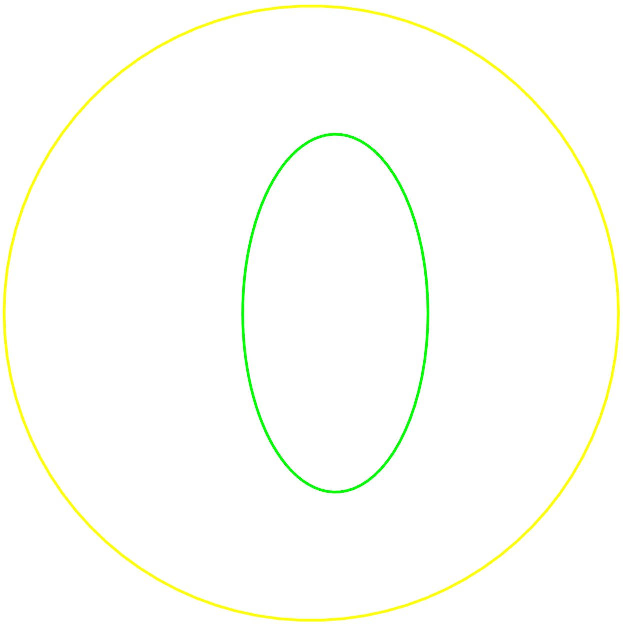

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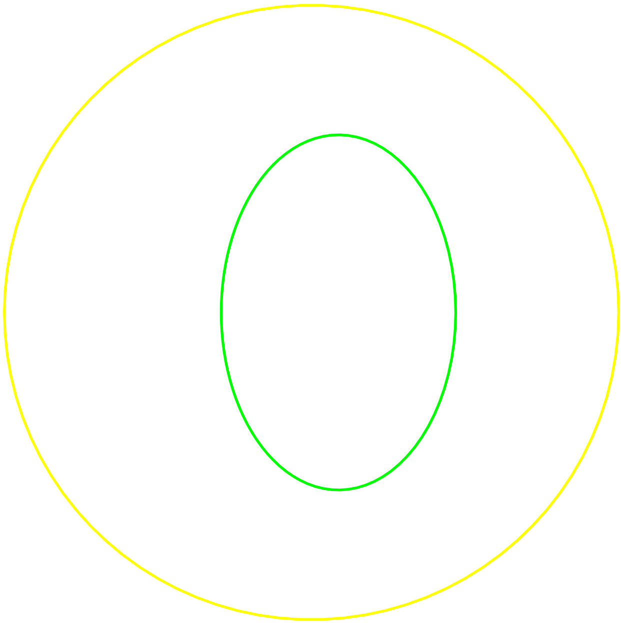
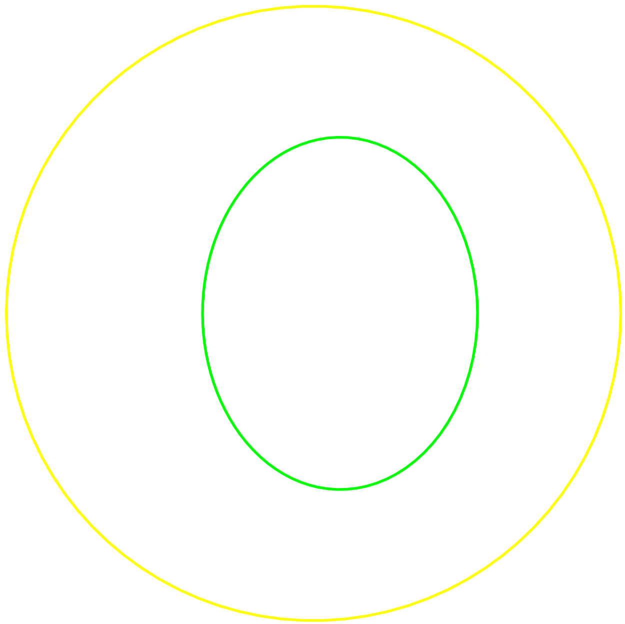
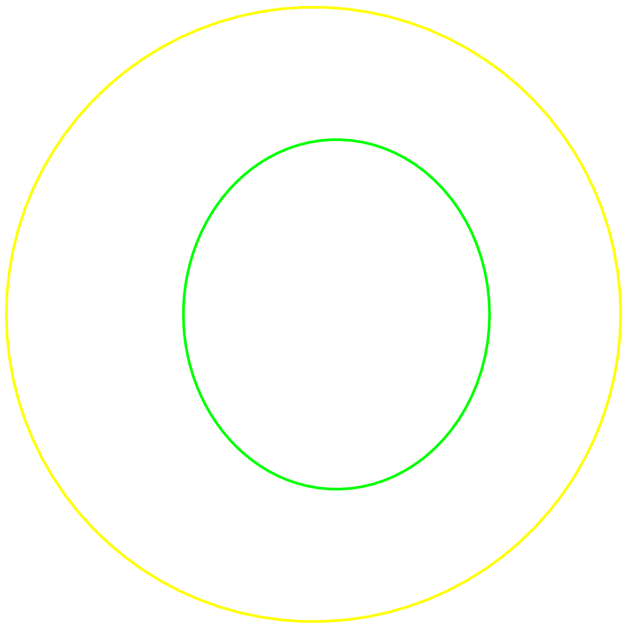


A large cycle



A large cycle



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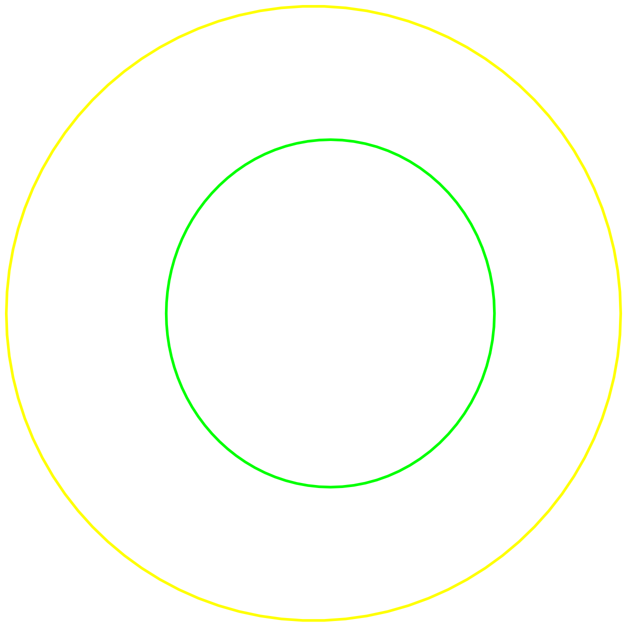
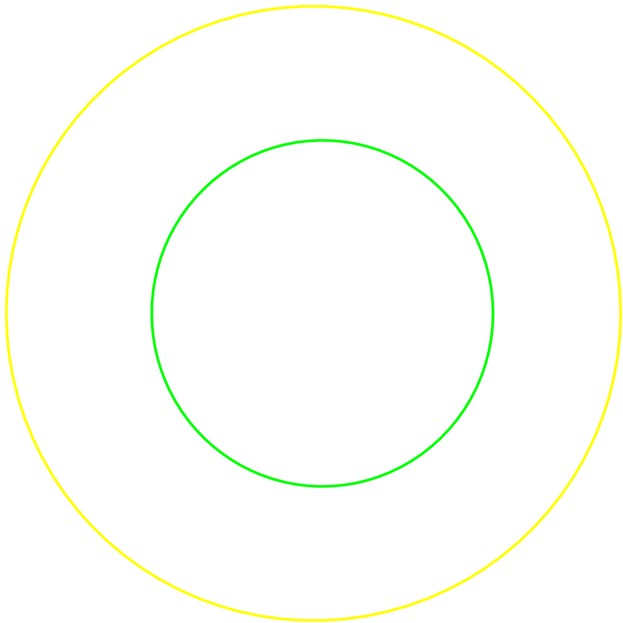
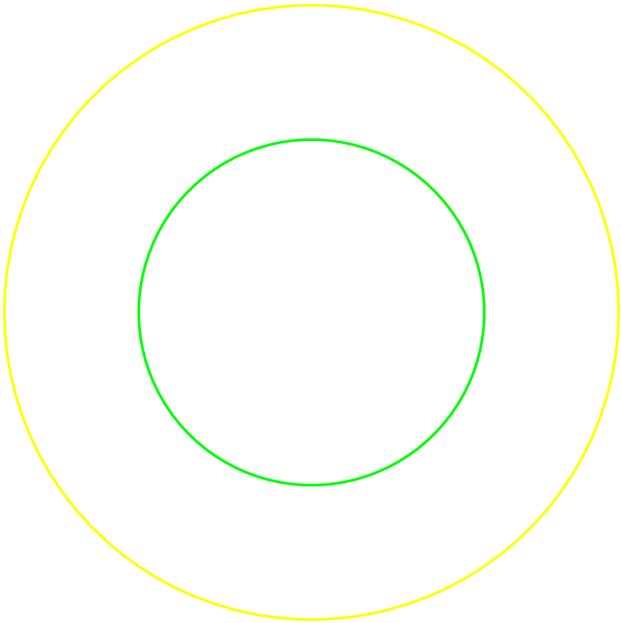


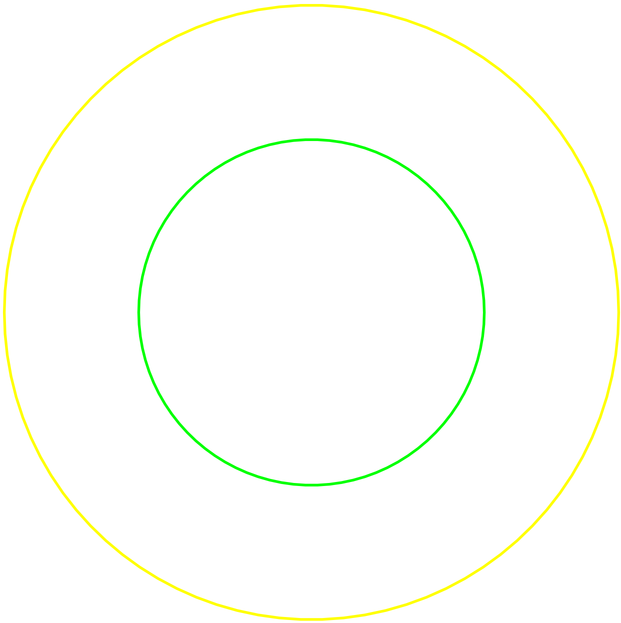
A large cycle



A large cycle

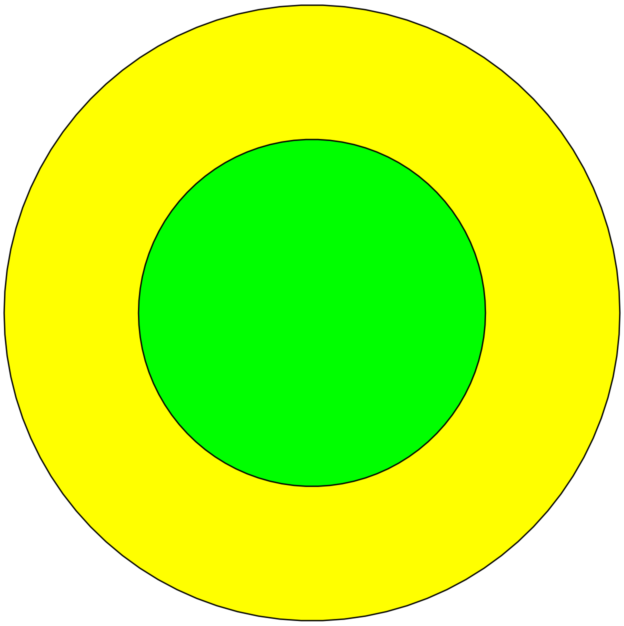


A large cycle



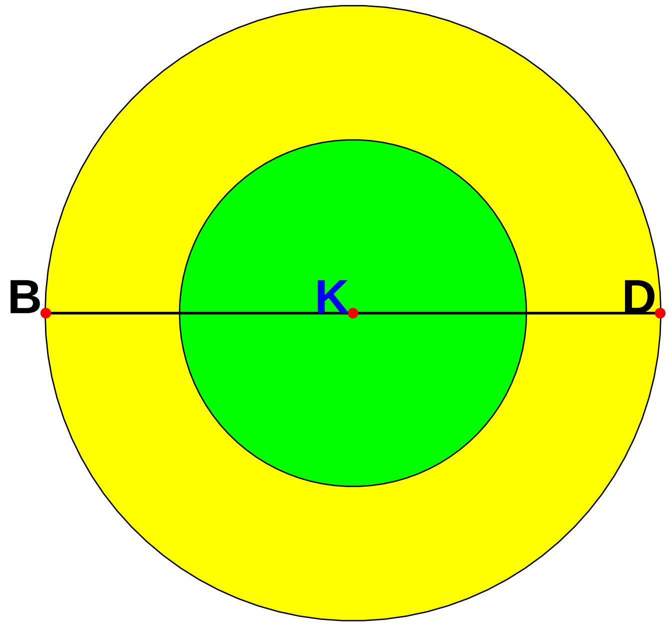
A small cycle

A large cycle

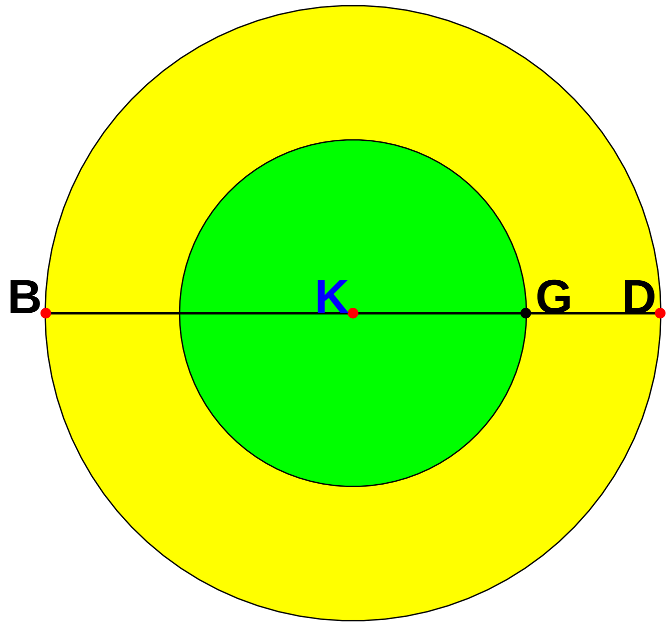


straight line BKD goes through the center K

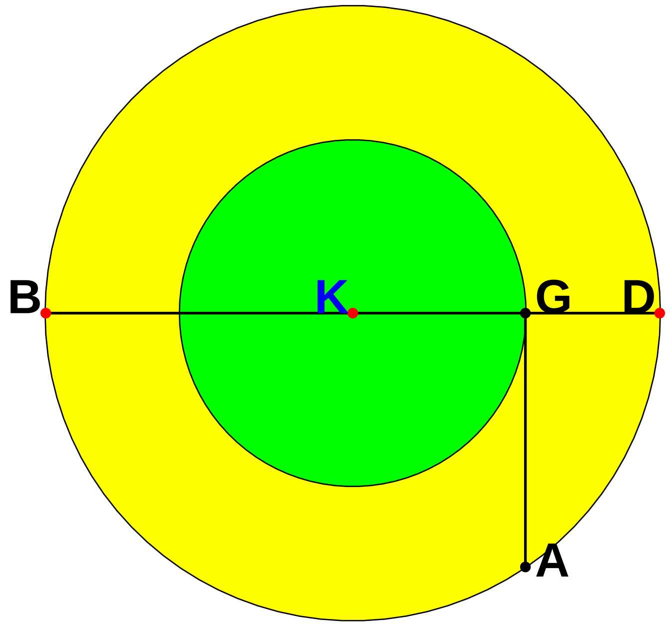
K is the center of those two cycles



G is both on the smaller cycle and the line BKD

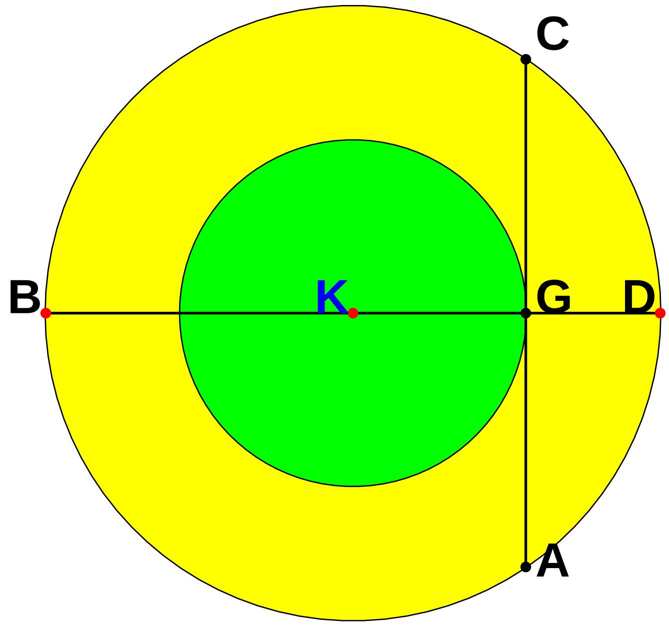


straight line AG is perpendicular to line BKD, A is on the larger cycle



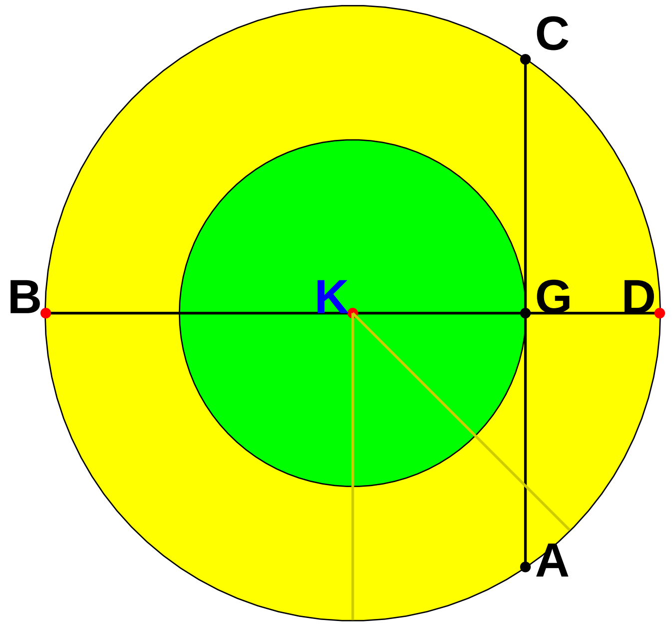
Line AG intersect the large cycle on another point C

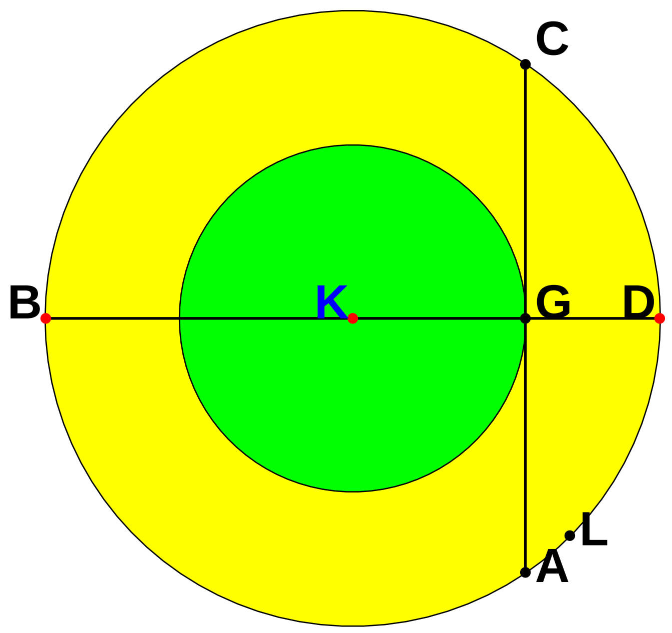
Hence, Line AC touch the smaller cycle



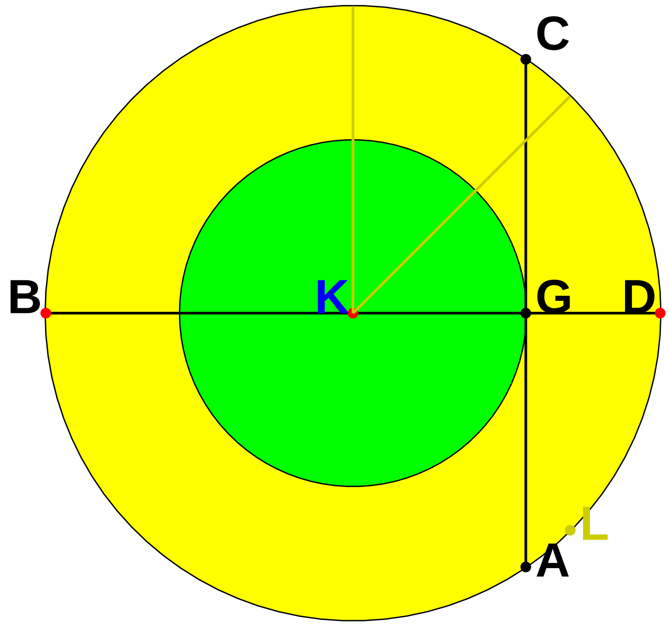
Bisecting the circumference BAD repeatly,

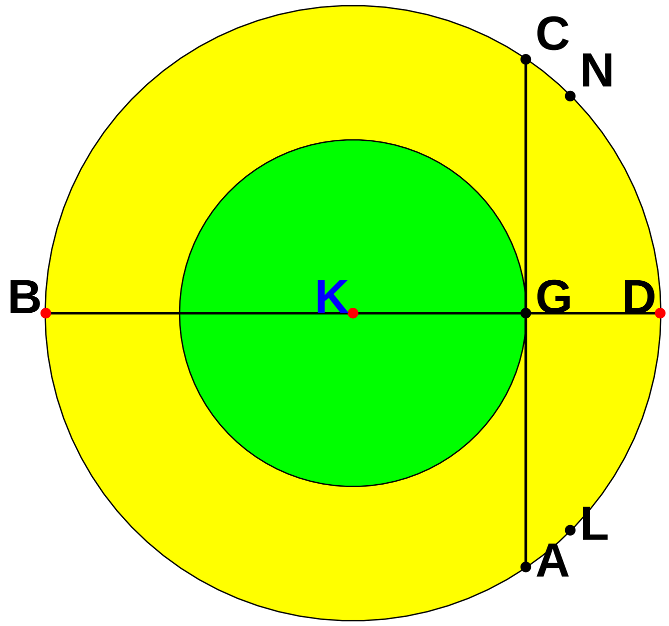
till find sector ptr L on the right of ptr A



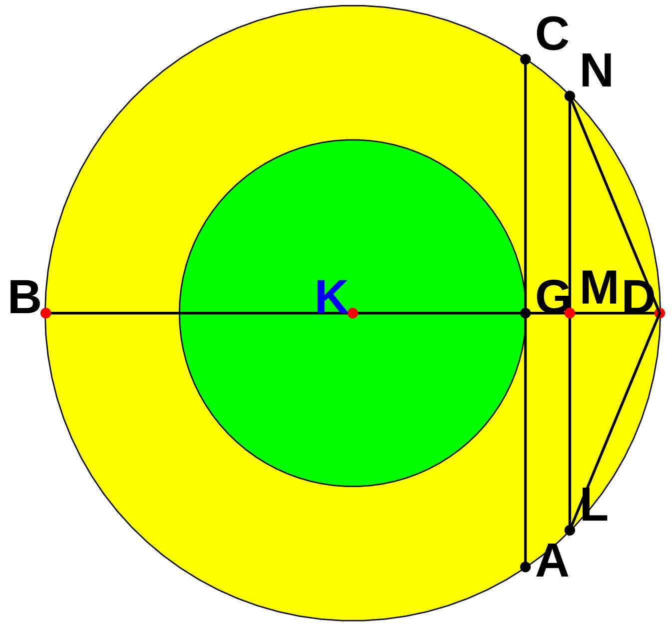

C
B
K
G
D
L
A

Similar, ptr N is found for circumference BCD




C
N
B
K
G
D
L
A

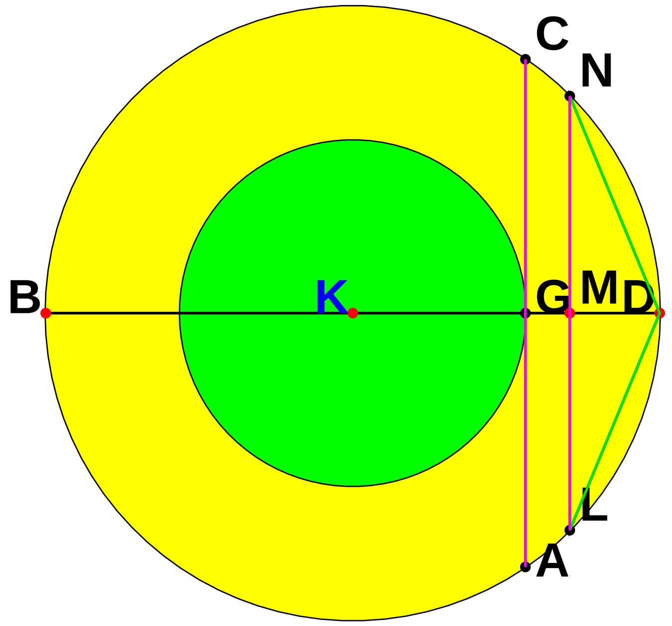
connect ptrs L, D and N. Line LN intersect BD at M



LD = ND, LN // AC

AC touch the small cycle, LN is on its right.

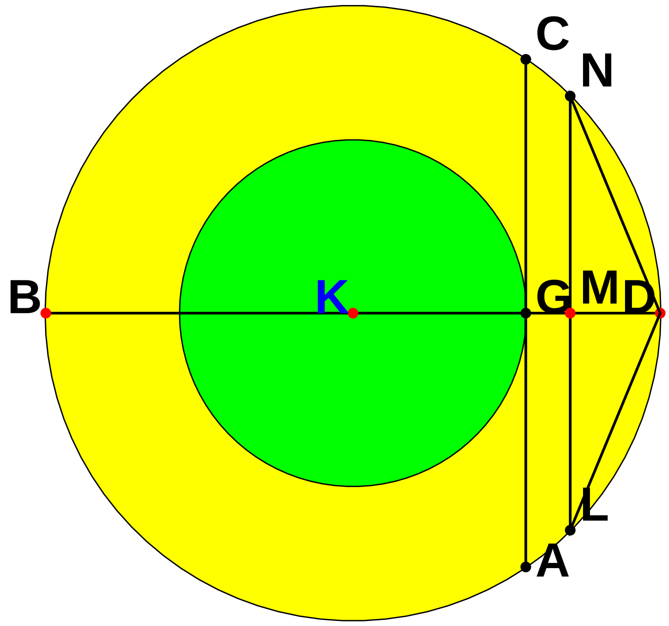
Hence, LD and ND are far from touching the small cycle

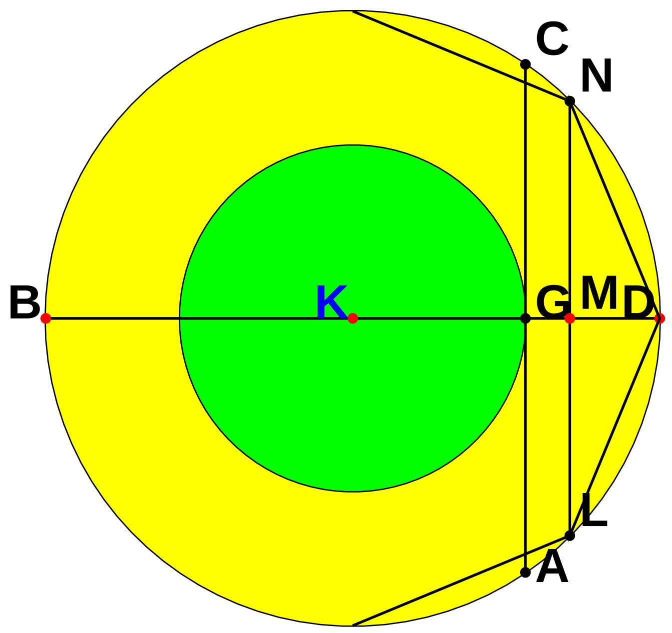


Following the way of construcing LD and DN,

we can get an equilateral polygon with an even number

of sides that does not touch the smaller cycle




C
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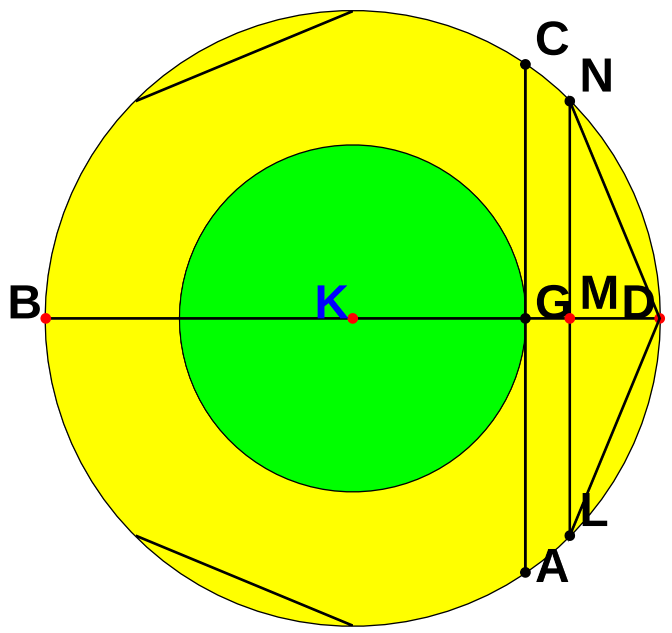
C
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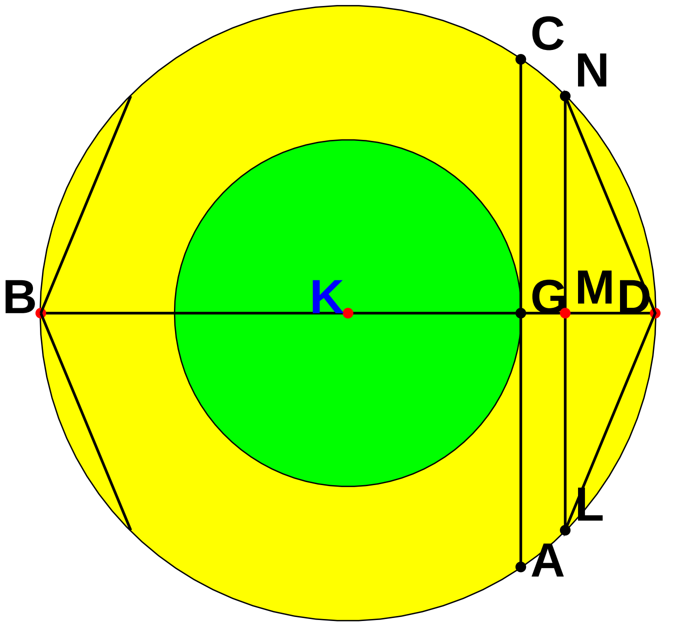
C
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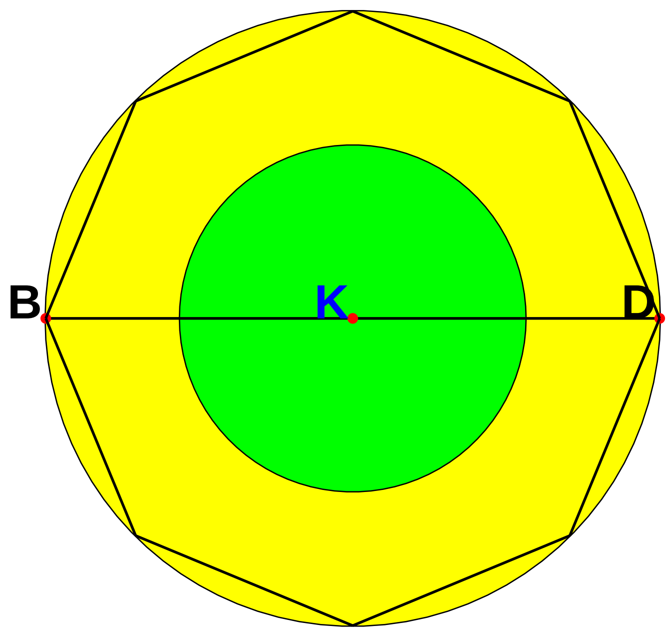
G
M
D
L
A

drawing...


B
K
D