Median
eq. of ⊙ → pic to eq
→ eq to pic

basic constructions
- copying a line seg.
- " an angle
= parallel lines
- eq. Δ and more
- bisect ∠
- ⊥ bisector, ⊥ line thru pt

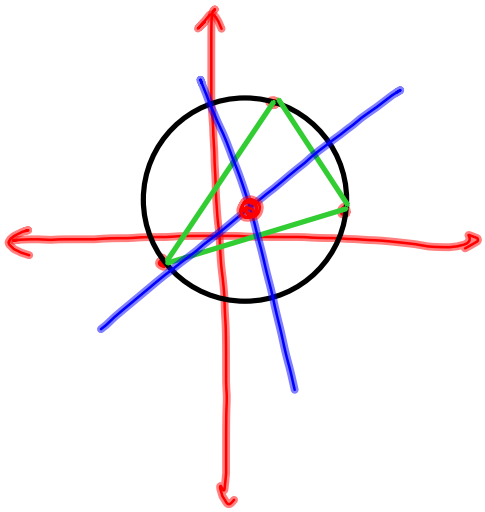
centroid - medians
circumcenter - ⊥ bisectors
incenter - ∠ bisectors
orthocenter - altitudes

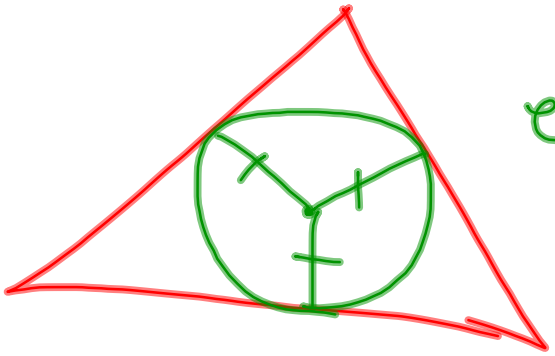
Transformations
on coordinate planes / Constructions

Let A(2,6) B(5,1) & C(-3,-1)

be equally away from pt. O.

Find O by construction.





equi. distance away
from 3 sides.

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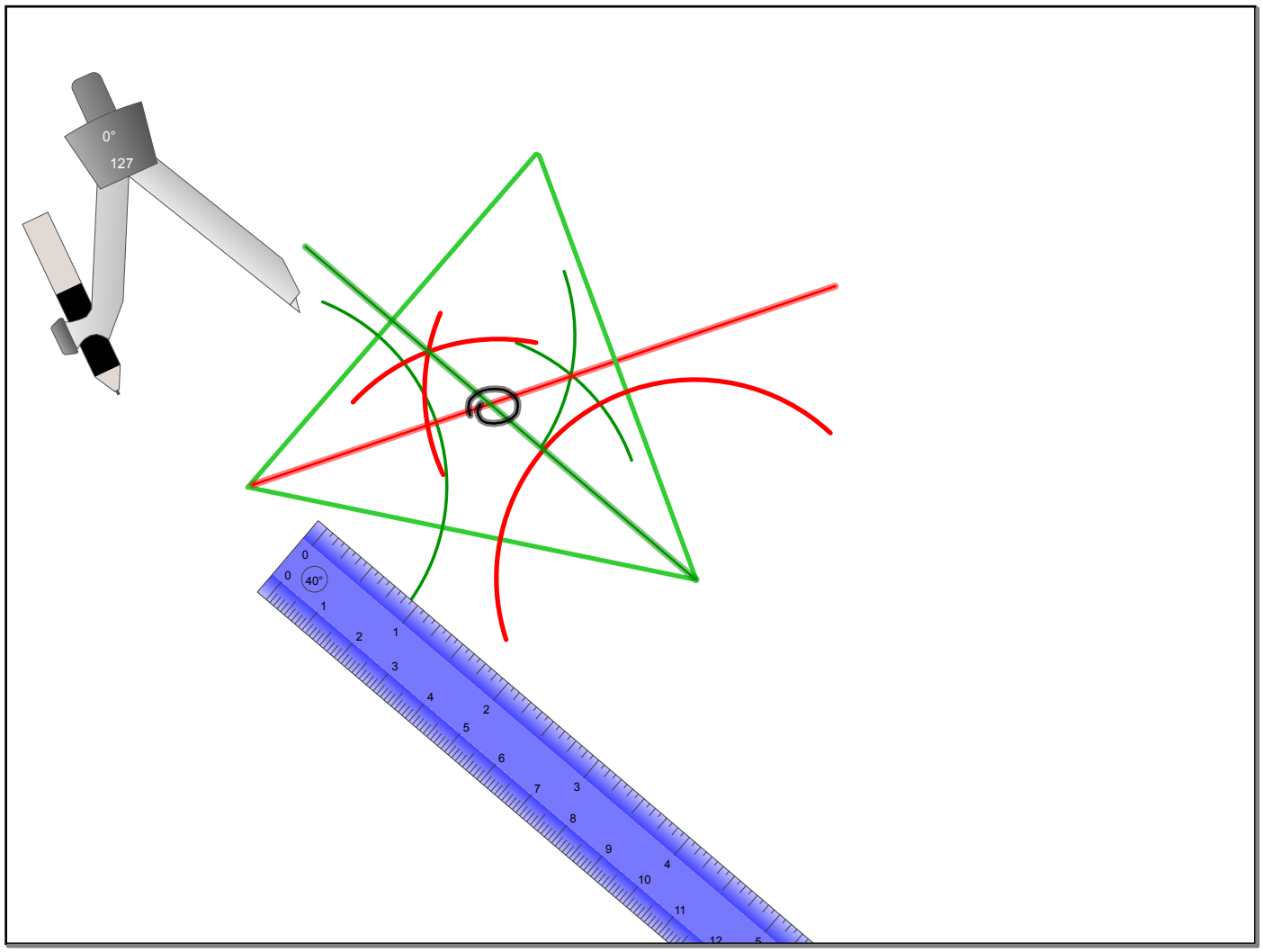

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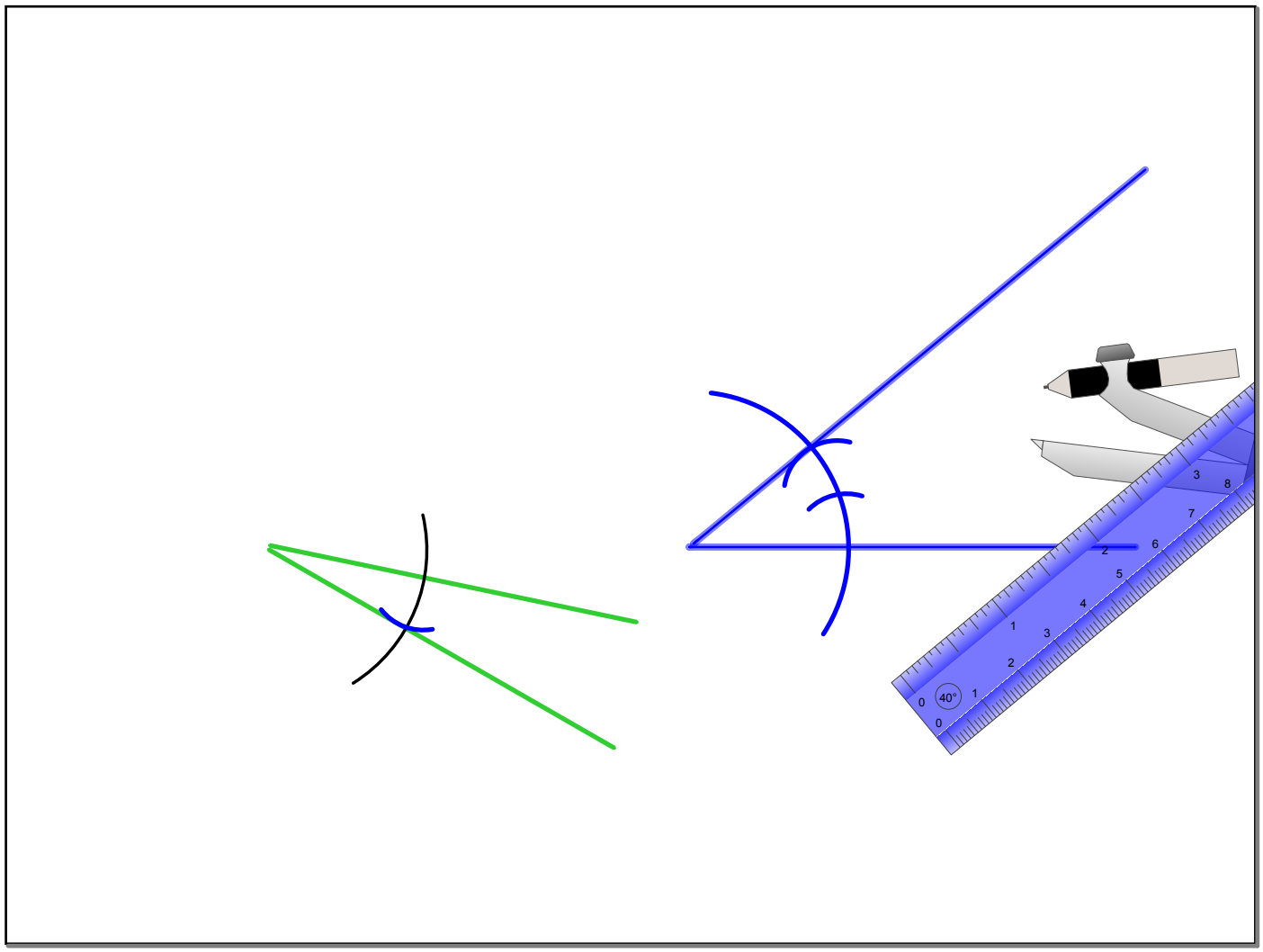
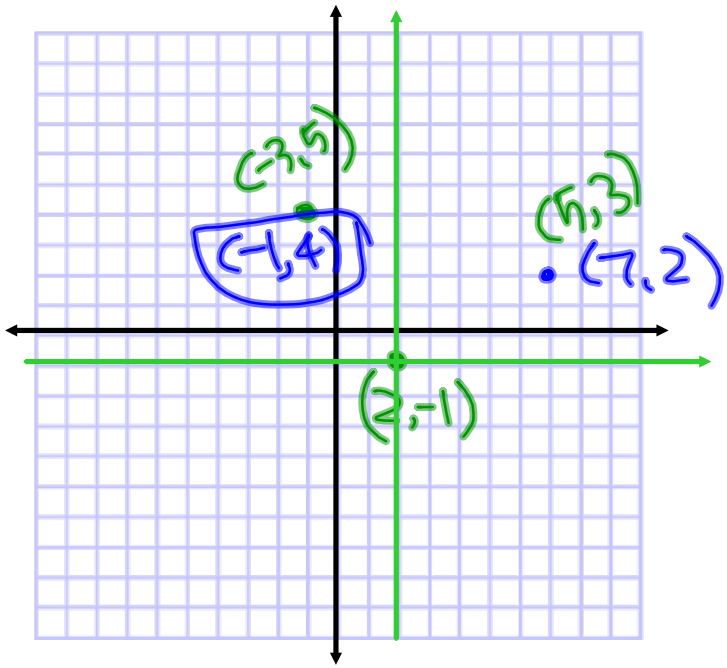
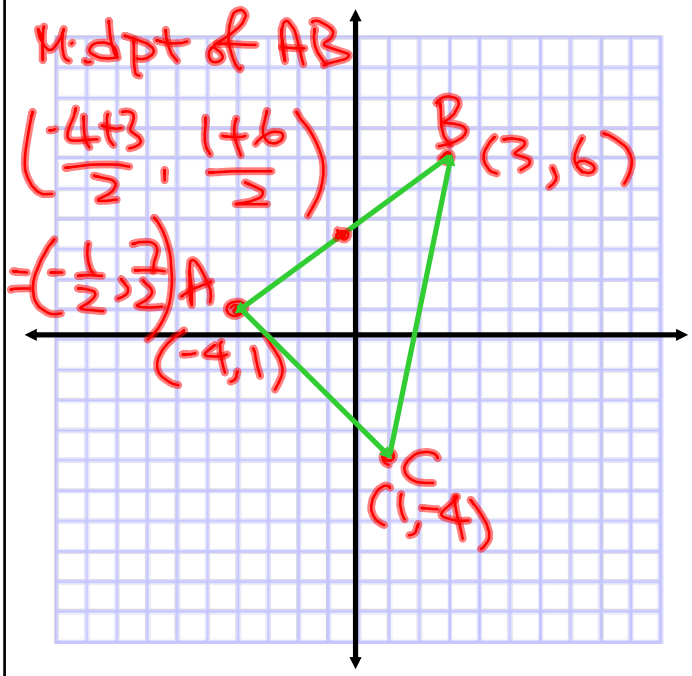



(-3,5)
(-1,4)
(5,3)
(7,2)
(2,-1)

Median from C.



eq.

$$m = \frac{-4-\frac{7}{2}}{1-(-\frac{1}{2})} = \frac{-\frac{15}{2}}{\frac{3}{2}}$$

$$= -5$$

$$y+4 = -5(x-1)$$

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