

G.CO.13 WORKSHEET #2 – PATTERSON

Name: _____

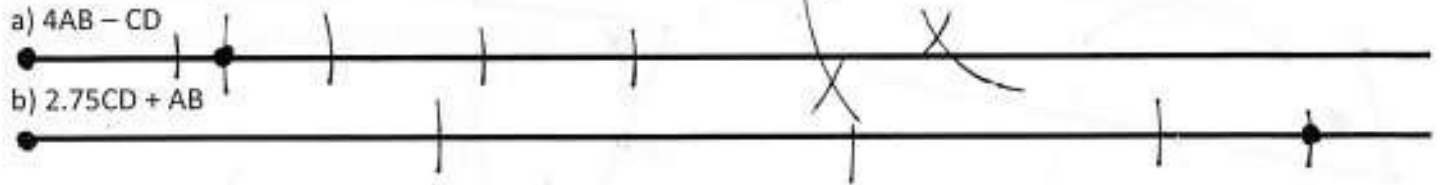
Review the basic constructions.

1. Copying Segments



a) $4AB - CD$

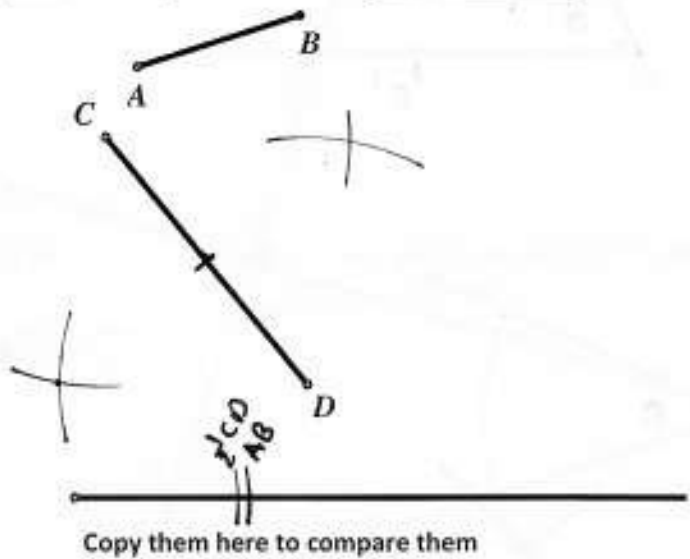
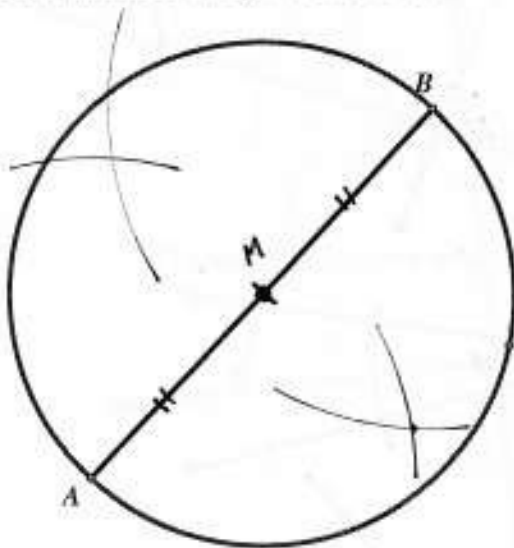
b) $2.75CD + AB$



2. Midpoint Construction

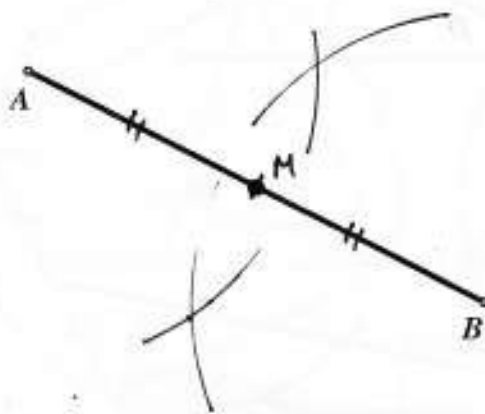
a) Given diameter AB, find the center

b) Which is larger AB or $\frac{1}{2}CD$? AB



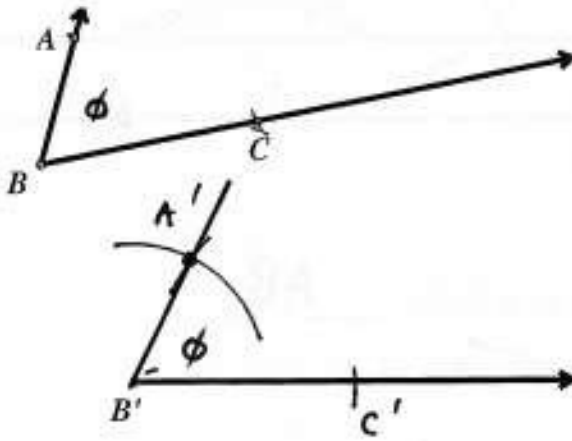
c) Construct the midpoint of \overline{AB}

d) $CD = \frac{1}{3}GH$. Construct \overline{GH} .

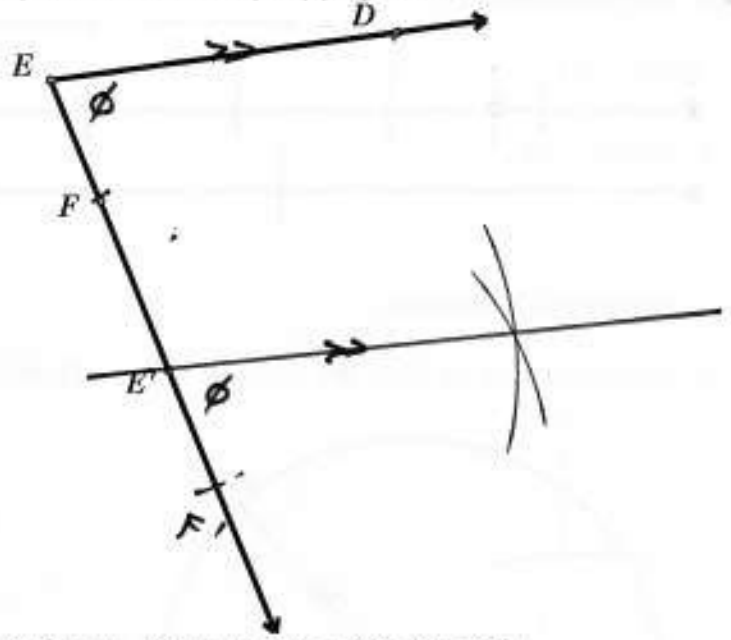


3. Copying an Angle & Parallel Line Construction

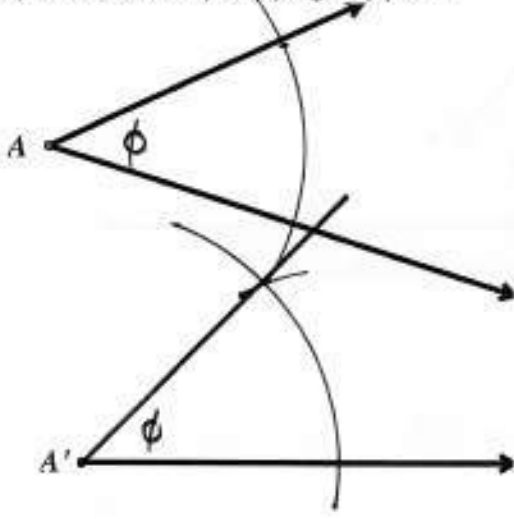
a) Create $\angle A'B'C'$ by copying $\angle ABC$.



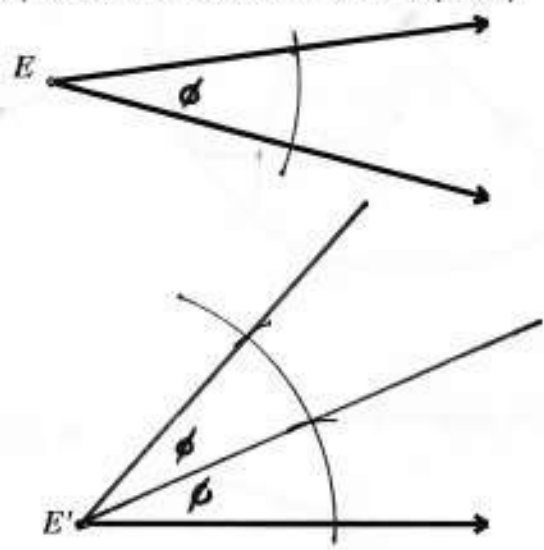
b) Create $\angle D'E'F'$ by copying $\angle DEF$.



c) Create $\angle A'$ by copying Copy $\angle A$



d) Create $\angle E'$ such that $m\angle E' = 2(m\angle E)$

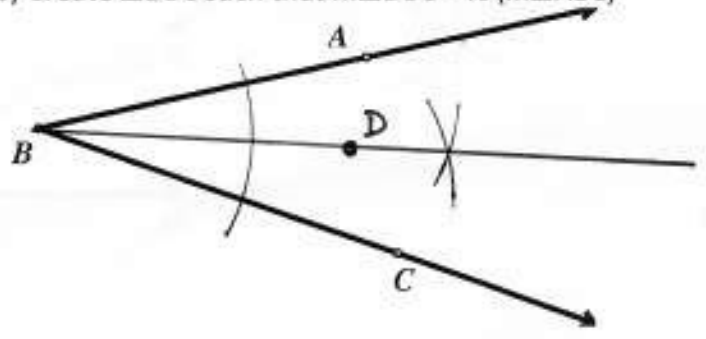


4. Angle Bisector Construction

a) Construct the angle bisector of $\angle A$.



b) Create $\angle DBC$ such that $m\angle DBC = \frac{1}{2}(m\angle ABC)$



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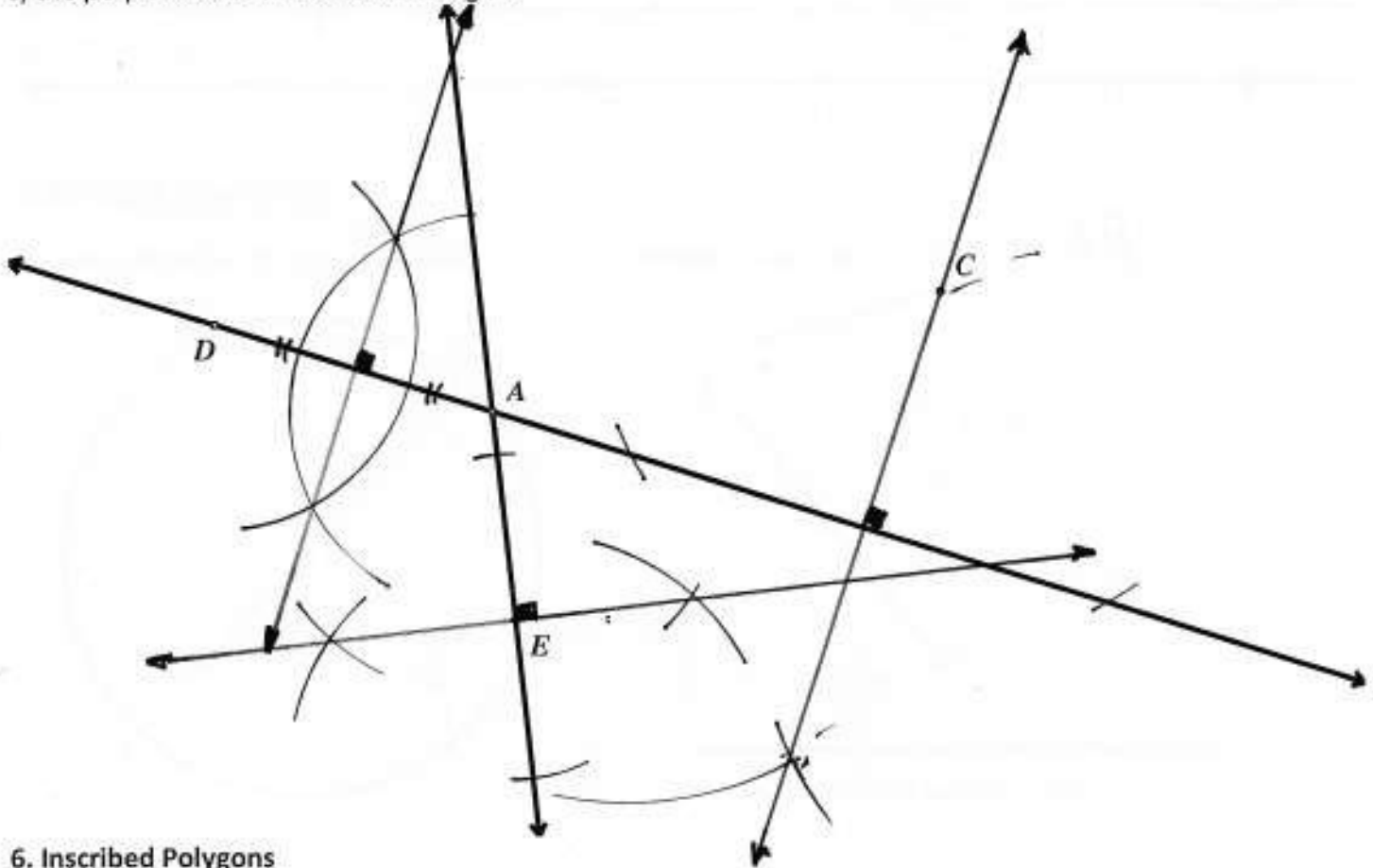
5. Perpendicular Constructions

Construct the following.

a) the perpendicular bisector of \overline{AD}

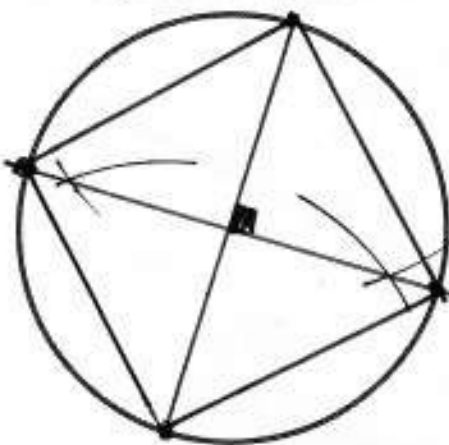
c) the perpendicular line to \overline{DA} through C

b) a perpendicular line to \overline{AE} through E

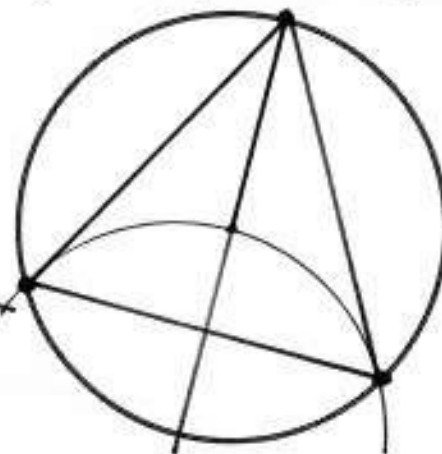


6. Inscribed Polygons

a) Inscribed Square



b) Inscribed Equilateral Triangle



c) Inscribed Hexagon

