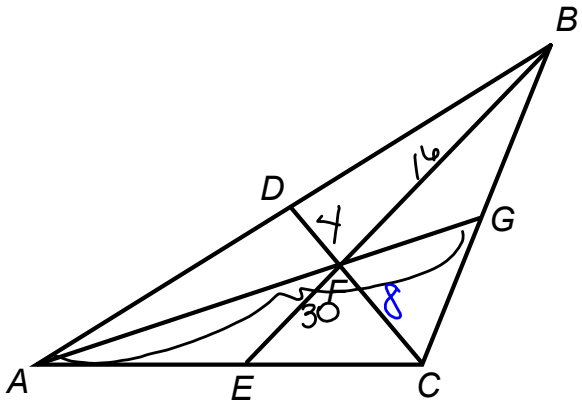
DO NOW

In the figure at the right, $\overline{AG}$, $\overline{BE}$ and $\overline{CD}$ are medians of $\triangle ABC$. If $DF = 4$, $BF = 16$, and $AG = 30$, find each of the following measures.

1) $FC =$ 8
2) $DC =$ 12
3) $AF =$ $\frac{2}{3}(30) = 20$
4) $BE =$ 24
5) $FG =$ 10



Oct 3-8:02 AM

Inscribe a Square in a Circle

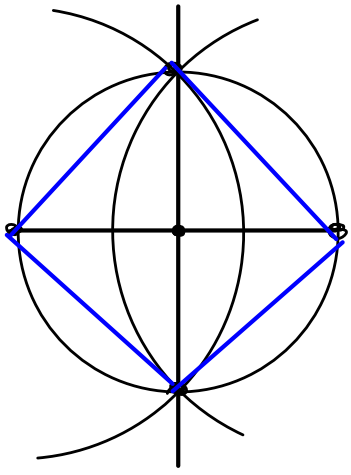
1. Using your compass, draw a circle and label the center O.

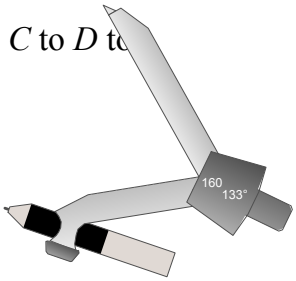
2. Using your straightedge, draw a diameter of the circle, labeling the endpoints A and B.

3. Construct the perpendicular bisector of the diameter, $\overline{AB}$.

4. Label the points where the bisector intersects the circle as C and D.

5. Connect points A to B to C to D to form the square.





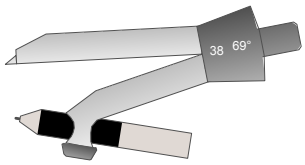
Oct 3-9:33 AM

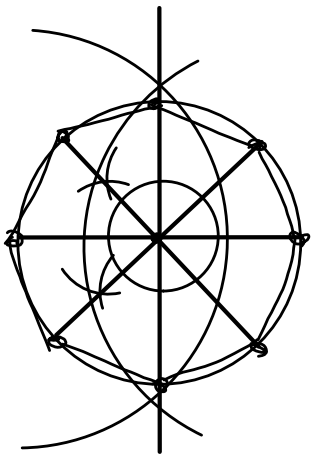
Inscribe an Octagon in a Circle

1. Inscribe a square in a circle

2. Bisect all 4 angle using angle bisector construction

3. Connect 8 points to form an octagon





Oct 3-9:39 AM