

READY, SET, GO!

Name

Period

Date

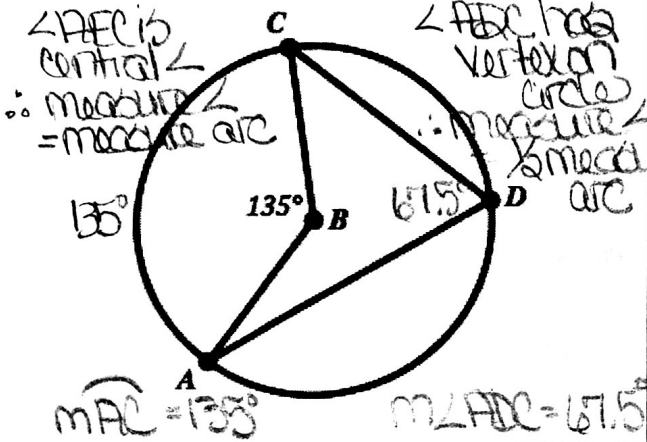
READY

Topic: Angles, arc and areas

Use the given information to find the desired values.

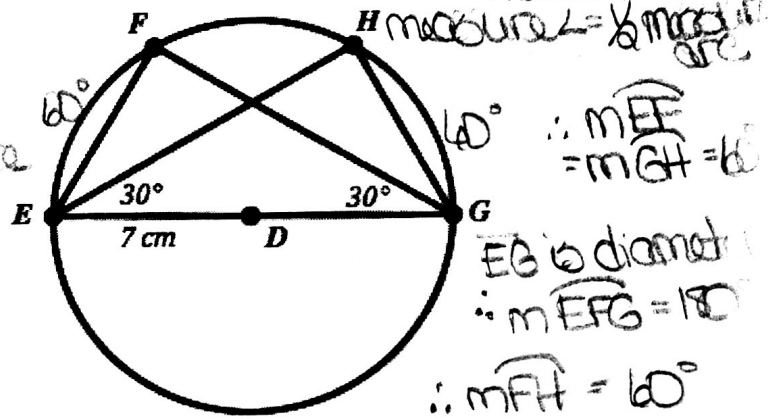
1. Given $\odot B$ and marked angle measure.

Find $m\angle ADC$ and find the measure of \widehat{AC}



2. Given $\odot D$ with marked radius.

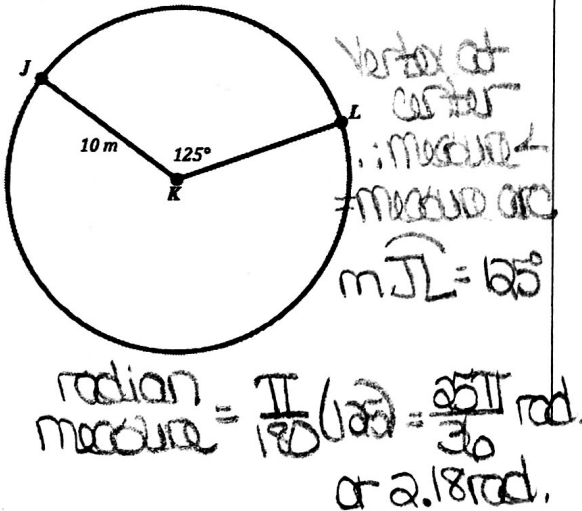
Find the measure of \widehat{FH} and find $m\widehat{EF}$.



3. Given $\odot K$ and marked angle measure.

Find the measure of arc \widehat{JL} .

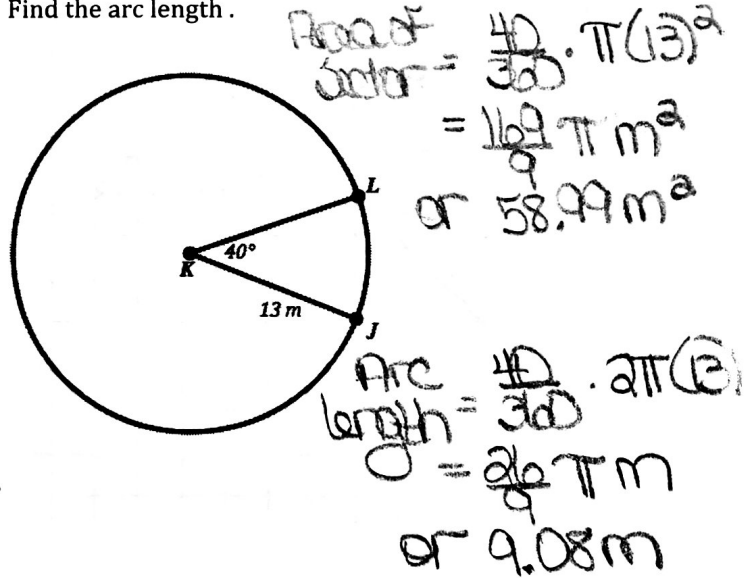
Find the radian measure that goes with the angle of 125°



4. Given $\odot K$ and marked angle measure.

Find the area of the small sector.

Find the arc length.



SET

Topic: Converting between radians and degrees.

Convert each angle measure to radians or degrees based on what is given.

5. $100^\circ = \frac{5\pi}{9}$ Radians
 $\frac{\pi}{180}(100) = 1.75$ radians

6. $30^\circ = \frac{\pi}{6}$ Radians
 $\frac{\pi}{180}(30) = .52$ radians

7. $225^\circ = \frac{5\pi}{4}$ Radians
 $\frac{\pi}{180}(225) = 3.93$ radians

8. $\frac{\pi}{3}$ Radians = 60° Degrees

9. 5π Radians = 900° Degrees

10. $\frac{5\pi}{4}$ Radians = 225° Degrees

11. $270^\circ = \frac{3\pi}{2}$ Radians
 $\frac{\pi}{180}(270)$ or 4.71 radians

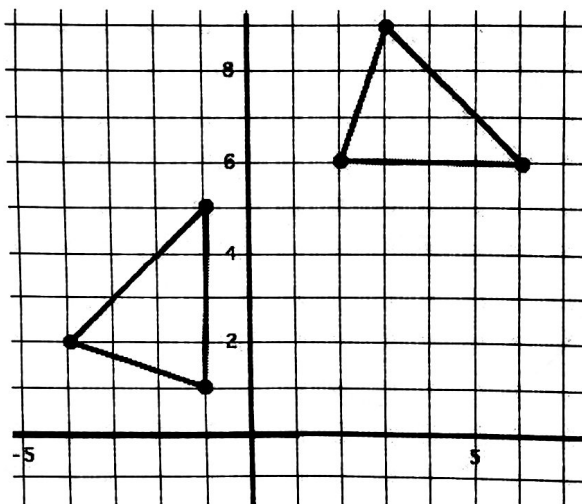
12. $90^\circ = \frac{\pi}{2}$ Radians
 $\frac{\pi}{180}(90)$ or 1.57 radians

13. $150^\circ = \frac{5\pi}{6}$ Radians
 $\frac{\pi}{180}(150)$ or 2.62 radians

Topic: Finding Centers of Rotation

Given the two figures below find the center of rotation that was used. Then use a compass to draw the concentric circles on which the vertex points of the triangle lie.

14.



15.

