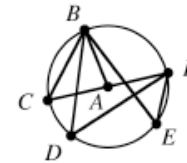


Review & Preview

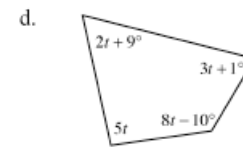
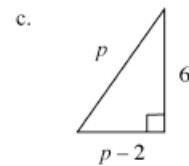
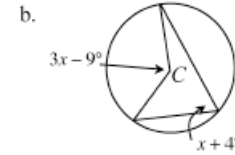
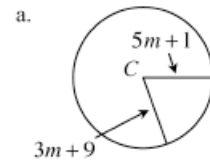
10-17. In $\odot A$ at right, \overline{CF} is a diameter and $m\angle C = 64^\circ$. Find:

- a. $m\angle D$ b. $m\widehat{BF}$ c. $m\angle E$
 d. $m\widehat{CBF}$ e. $m\angle BAF$ f. $m\angle BAC$



10-18. Find the area of a regular polygon with 100 sides and with a perimeter of 100 units.

10-19. For each of the geometric relationships represented below, write and solve an equation for the given variable. For parts (a) and (b), assume that C is the center of the circle. Show all work.



10-20. On graph paper, plot $\triangle ABC$ if $A(-1, -1)$, $B(1, 9)$ and $C(7, 5)$.

- a. Find the midpoint of \overline{AB} and label it D . Also find the midpoint of \overline{BC} and label it E .
 b. Find the length of the midsegment, \overline{DE} . Use it to predict the length of \overline{AC} .
 c. Now find the length of \overline{AC} and compare it to your prediction from (b).

10-21. $ABCDE$ is a regular pentagon inscribed in $\odot O$.

- a. Draw a diagram of $ABCDE$ and $\odot O$ on your paper.
 b. Find $m\angle EDC$. How did you find your answer?
 c. Find $m\angle BOC$. What relationship did you use?
 d. Find $m\widehat{EBC}$. Is there more than one way to do this?

10-22. **Multiple Choice:** Jill's car tires are spinning at a rate of 120 revolutions per minute. If her car tires' radii are each 14 inches, how far does she travel in 5 minutes?

- a. 140π b. 8400π in c. 3360π in d. 16800π in