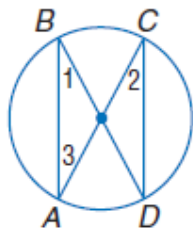
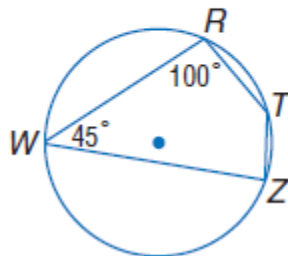


- (1)  $m\angle BDC = 25$ ,  
 $m\widehat{AB} = 120$ , and  
 $m\widehat{CD} = 130$



- (2) Quadrilateral  $WRTZ$  is inscribed in a circle. Find  $m\angle T$  and  $m\angle Z$ .

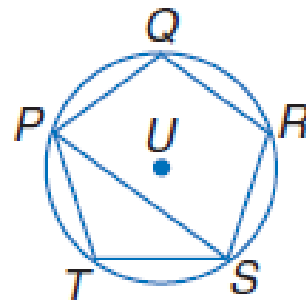


$m\angle T$

$m\angle Z$

Regular pentagon  $PQRST$  is inscribed in  $\odot U$ . Find each measure.

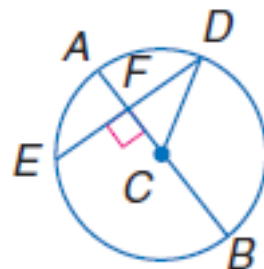
- (3)  $m\widehat{QR}$       (4)  $m\angle PSR$       (5)  $m\angle PQR$       (6)  $m\widehat{PTS}$



- (7) **REASONING** Compare and contrast an inscribed angle and a central angle that intercepts the same arc.

- (8) **OPEN ENDED** Find a real-world logo with an inscribed polygon.

- (9) If  $AB = 60$  and  $DE = 48$ , find  $CF$ .



- (10) **REVIEW** Simplify  
 $4(3x - 2)(2x + 4) + 3x^2 + 5x - 6$ .

F  $9x^2 + 3x - 14$

G  $9x^2 + 13x - 14$

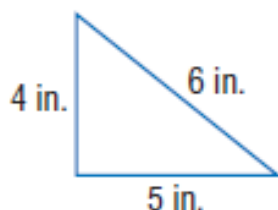
H  $27x^2 + 37x - 38$

J  $27x^2 + 27x - 26$

- (11) Points  $Q$  and  $R$  lie on  $\odot P$ . Find the length of  $\widehat{QR}$  for the given radius and angle measure. (Lesson 10-2)

$$m\angle QPR = 90, PR = 16$$

- (12) Determine whether each figure is a right triangle. (Lesson 8-2)



- (13) **MULTIPLE CHOICE** The diameter of a circle is 30 inches, and a chord of the circle is 24 inches long. How far is the chord from the center of the circle? (Lesson 10-3)

F 5 inches

G 7 inches

H 9 inches

J 11 inches