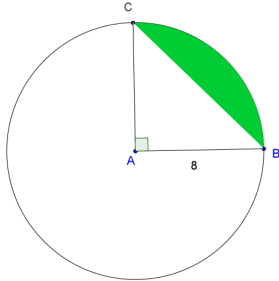


### Chapter 5 Practice Test

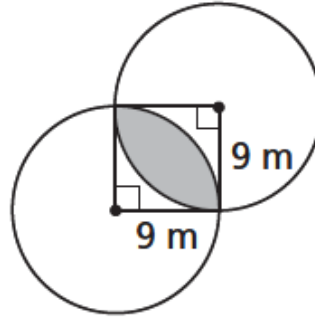
1. Determine the area of the shaded portion of the circle and the arc length from C to B. (5 points)



Arc Length = \_\_\_\_\_

Area = \_\_\_\_\_

2. Determine the exact perimeter and area of the shaded region. (2 points)

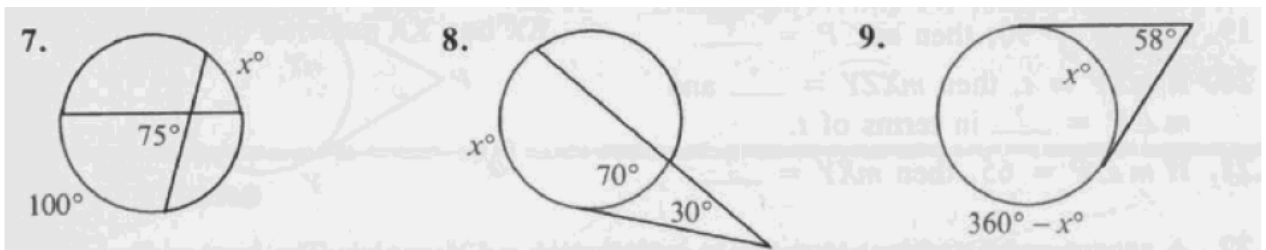
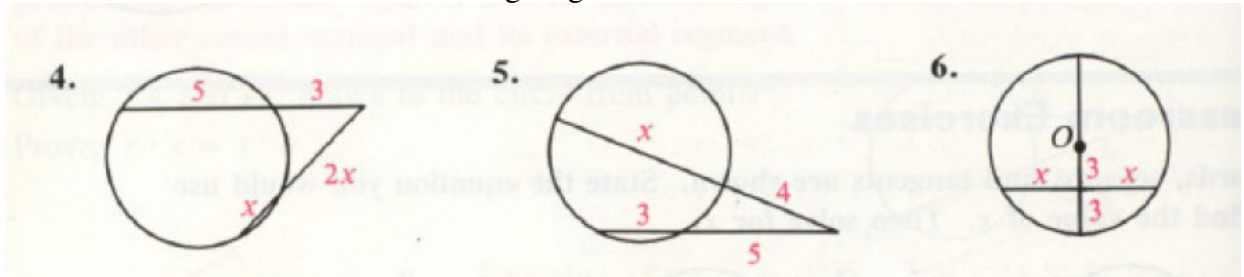


Perimeter: \_\_\_\_\_

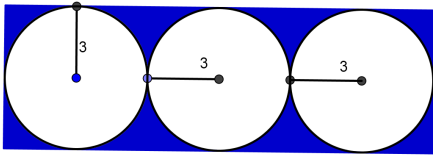
Area = \_\_\_\_\_

3. The angle of a sector is  $120^\circ$ . Find the area of the sector given that the circle has an area of  $24\pi$ . (2 points)

Determine the value of  $x$  in the following diagrams.

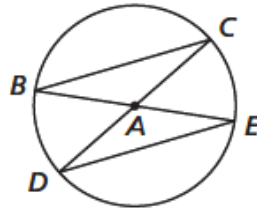


1. Determine the area of the shaded region given that the circles are tangent to the sides of the rectangle. (3 points)

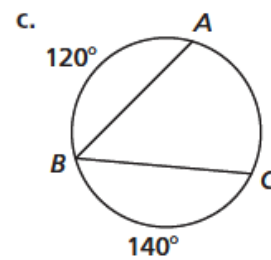
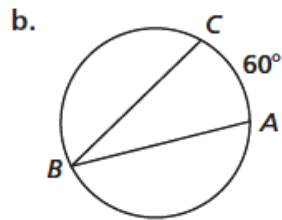
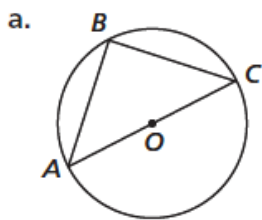


2. A tire on a car has a radius of 14 inches. Determine how many feet the car has traveled if the tire rotates 1000 times.

12. Given: Circle A  
Prove:  $\overline{BC} \parallel \overline{DE}$



13. Find the measure of  $\angle ABC$  in each of the following diagrams.



14. Determine the values of  $x$ ,  $y$ , and  $z$  in the diagram.

