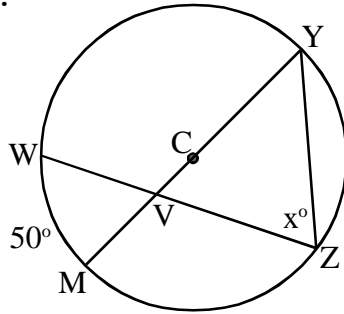


# Circle Properties Practice Test

## Geometry 6.7

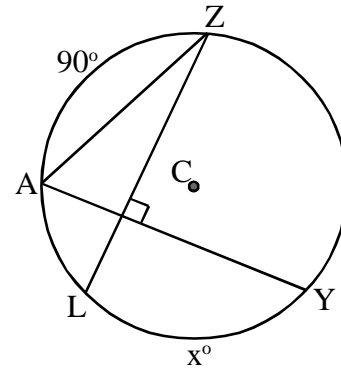
Solve for  $x$  in each of the following diagrams:

1.



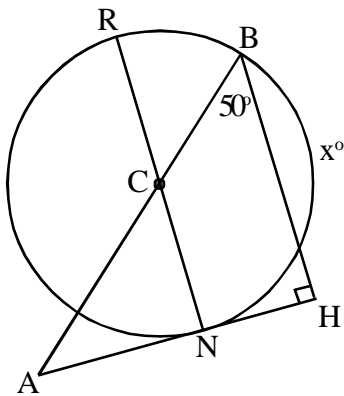
$x$  \_\_\_\_\_

2.



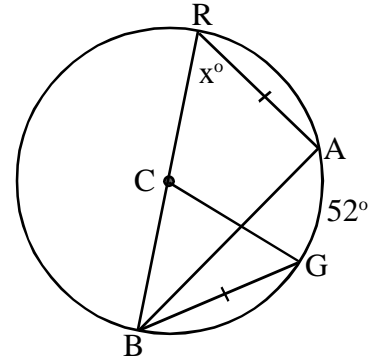
$x$  \_\_\_\_\_

3.



$x$  \_\_\_\_\_

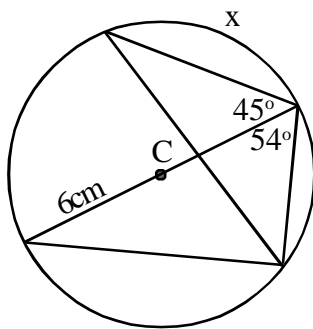
4.



$x$  \_\_\_\_\_

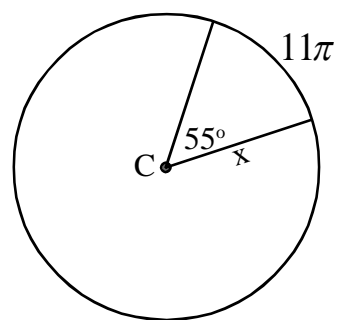
Find the missing length for each figure below (in terms of pi where applicable):

5.



$x$  \_\_\_\_\_

6.



$x$  \_\_\_\_\_

7. The tire of a car traveling 30 mph makes 500 rotations per minute.  
What is the radius of the tire? note: 1 mile = 5,280 feet.  
Round to the nearest inch.

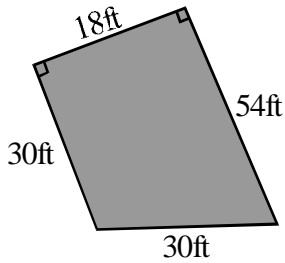
7. \_\_\_\_\_

# Practice Test

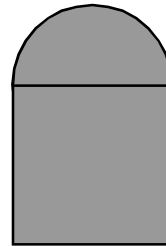
## Geometry

**Determine the shaded area of each figure below.** Leave answers in terms of pi and in simplest radical form where applicable.

1.



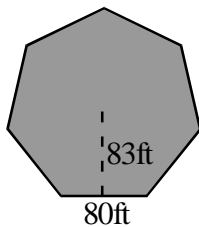
2.



(Square has 4-inch sides.)

1. \_\_\_\_\_

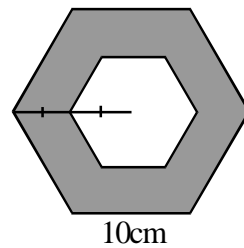
3.



(Heptagon is regular.)

2. \_\_\_\_\_

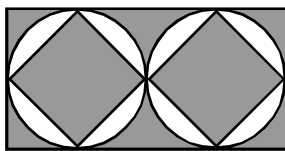
4.



(Hexagons regular and concentric.)

3. \_\_\_\_\_

5.

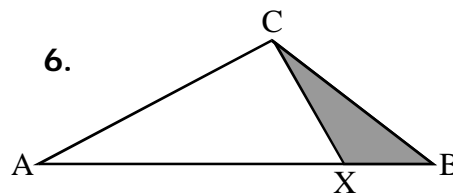


(Circle radii = 6in)

4. \_\_\_\_\_

5. \_\_\_\_\_

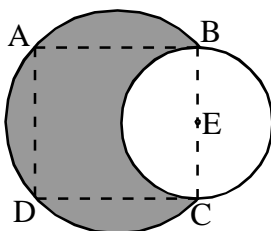
6.



(Area of triangle  $ABC = 180\text{cm}^2$ ,  
 $AX = 4BX$ )

6. \_\_\_\_\_

7.



(Inscribed square  $ABCD$  has side length 12. Circle  $E$  has diameter  $BC$ .)

7. \_\_\_\_\_