Geometry   Name _____
Worksheet 10.1 – 10.6

Use the diagram to the right to answer each of the following.

1.   Name the center of the circle. _____

2.   Name the circle.   _____

3.   Name three radii of the circle. _____

4.   Name the diameter of the   _____
        circle.

5.   Name a chord of the circle.   _____

6.   Name a tangent of the circle. _____

7.   Name a secant of the circle. _____

8.   Name two points in the   _____
        interior of the circle.

9.   Name two points in the   _____
        exterior of the circle.

10.   Name five points that lie   _____
        on the circle.

11.   Name a point of tangency.   _____

12.   Name a central angle.   _____

13.   Name a semicircle.   _____

14.   Name two minor arcs.   _____

15.   Name two major arcs.   _____
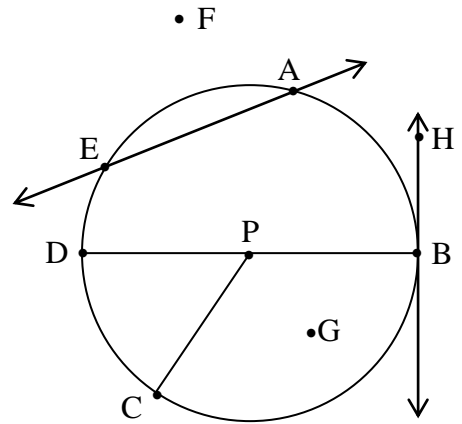
16. Given a chord of a circle is 10 inches long and is 12 inches from the center of the circle. Find the length of the radius.
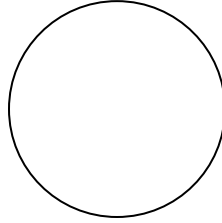
17. Given an equilateral triangle is inscribed in ⊙ Q with radius measuring 12 cm.

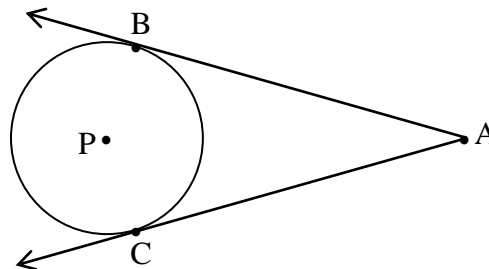 a. Find the length of each side of the equilateral triangle.
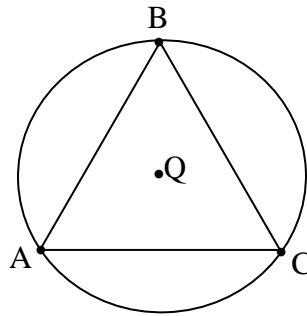
  b. Find the distance from each side of the triangle to the center of the circle.

18. In the figure, both $\overrightarrow{AC}$ and $\overrightarrow{AB}$ are tangents to ⊙ P.
    Given: $PB = 10$
    　　　$AP = 26$
    Find: AC

19. Given: ⊙ C
     Find: *x*

12

x

C

16   16
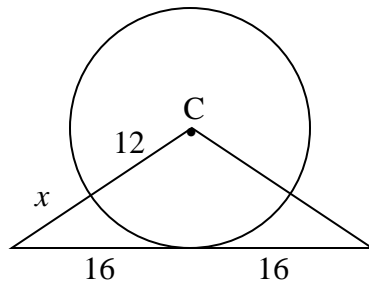
20. Given: ⊙ *P*
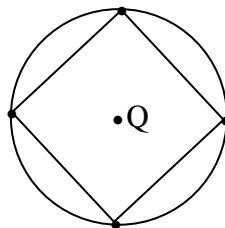   Tangent *DE*
     Find: $m\angle EDC$

E

B

30

P

D

A

C
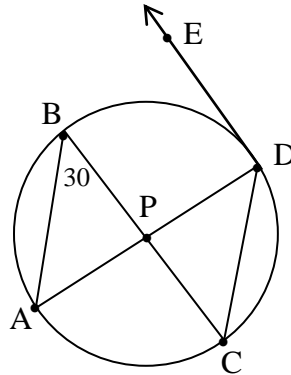
21. Given: ⊙ *S*
        $m\angle RST = 120$
        $ST = 15$

     Find: a) length of *RT*

           b) area of sector *RST*

R

S

T
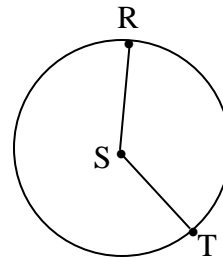
22. A square is inscribed in ⊙ *Q*. The diameter of the circle is 16 cm. Find the length
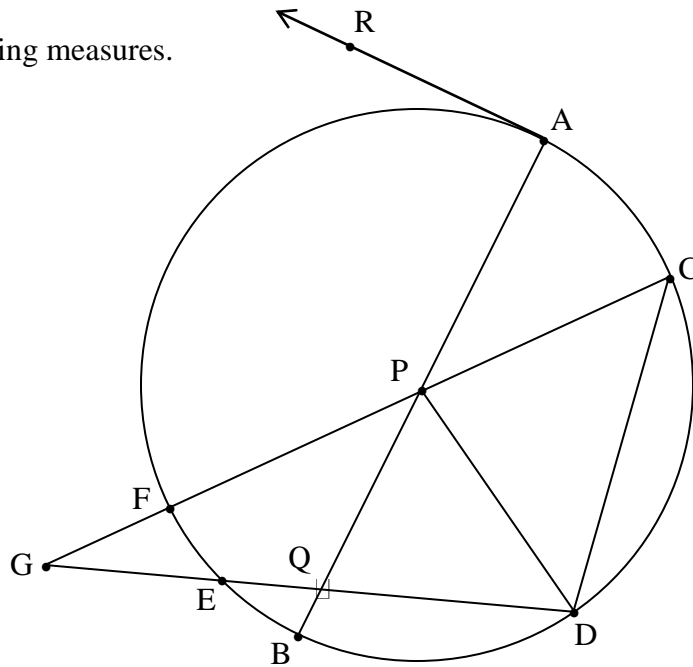   of the side of the square.

•Q

23. In $\odot P$, $AB \parallel CD$, AR is tangent to $\odot P$ at A.

$m\,BD = 42$

$m\,BE = 12$

Find each of the following measures.

a. $m\angle BPD$ _____

b. $m\angle APC$ _____

c. $m\angle BPF$ _____

d. $m\,AF$ _____

e. $m\angle FCD$ _____

f. $m\,AC$ _____

g. $m\,CD$ _____

h. $m\,FB$ _____

i. $m\,FE$ _____

j. $m\angle EDC$ _____

k. $m\angle G$ _____

l. $m\angle EQB$ _____

m. $m\angle RAB$ _____