Math 3   Name_____
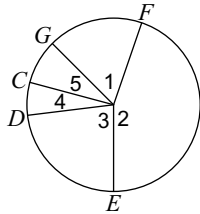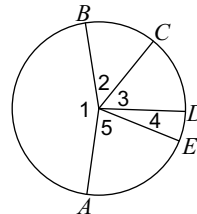
PRACTICE Test 6 Circles

If an angle is given, name the arc it makes. If an arc is given, name its central angle.
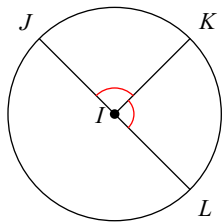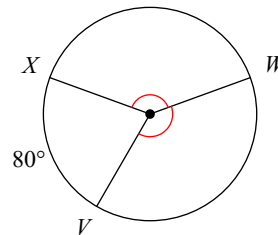
1) $\angle 2$

2) $\overparen{ADB}$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
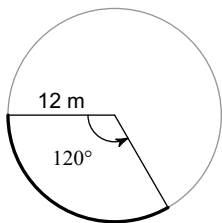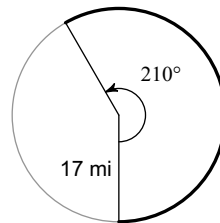
3) $m\angle KIL$

4) $m\overparen{XW}$

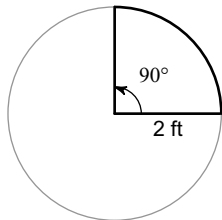**Find the length of each arc. Give answer in terms of pi.**
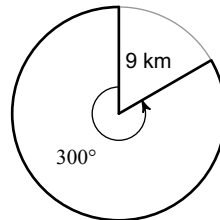
5)

6)

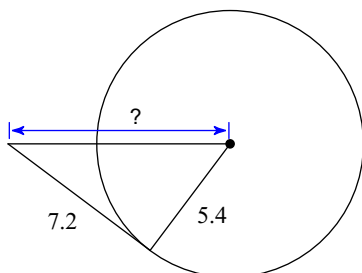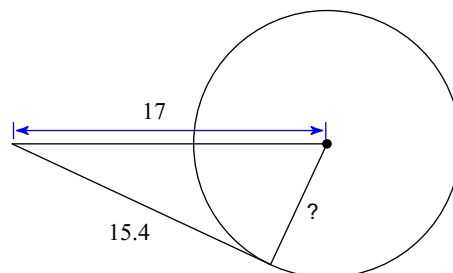**Find the area of each sector. Give answer in terms of pi.**

7)

8)

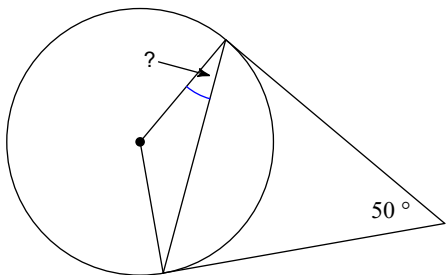**Find the segment length indicated. Assume that lines which appear to be tangent are tangent.**

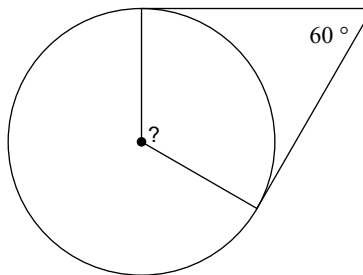9)

10)

 Made with Infinite Geometry.

Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.
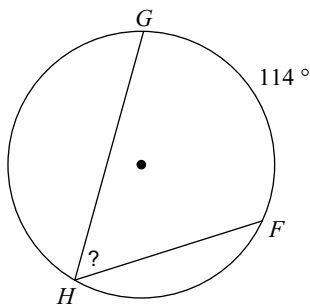
11)

50 °

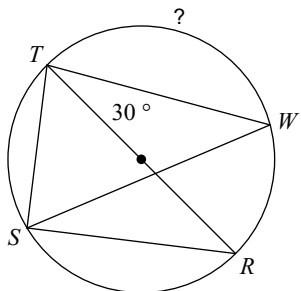12)

60 °

Find the measure of the arc or angle indicated.

13)

G

114 °

F

?

H

14)

L

?

74 °

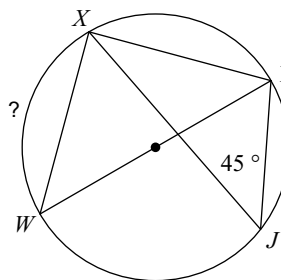J

K

15)
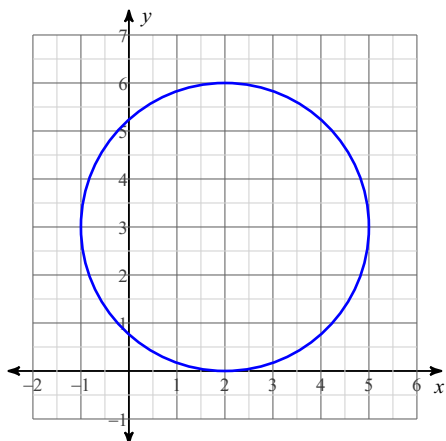

?

T

30 °

W

S

R

16)

X

Y

?

45 °

W

J
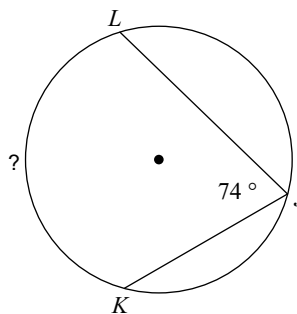
Use the information provided to write the equation of each circle.
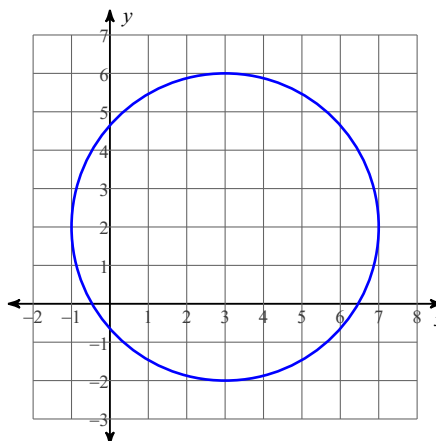
17) Center: $(12, 2)$
Radius: 3

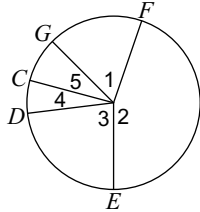18) Center: $\left(-\dfrac{3}{2}, -16\right)$
Circumference: 6π

19)

20)

PRACTICE Test 6 Circles

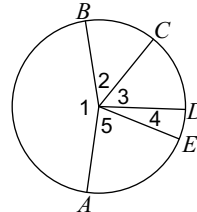**If an angle is given, name the arc it makes. If an arc is given, name its central angle.**

1) $\angle 2$ $\widehat{FE}$
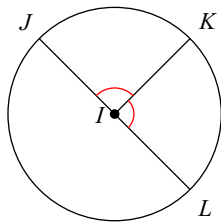
2) $\widehat{ADB}$ $\angle 1$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
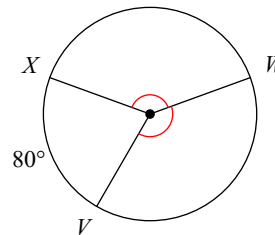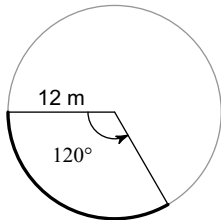
3) $m\angle KIL$ $90°$

4) $m\widehat{XW}$ $140°$

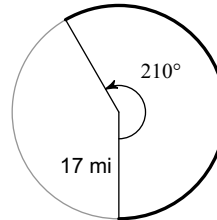**Find the length of each arc. Give answer in terms of pi.**

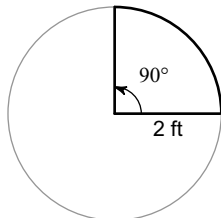5) 8π m

6) $\dfrac{119\pi}{6}$ mi

Find the area of each sector. Give answer in terms of pi.
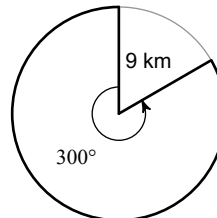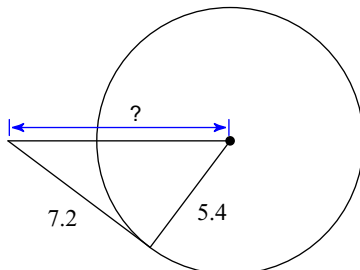
7) π ft²

8) $\dfrac{135\pi}{2}$ km²

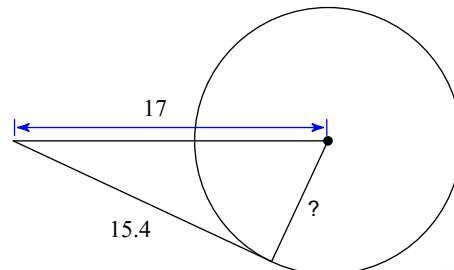**Find the segment length indicated. Assume that lines which appear to be tangent are tangent.**
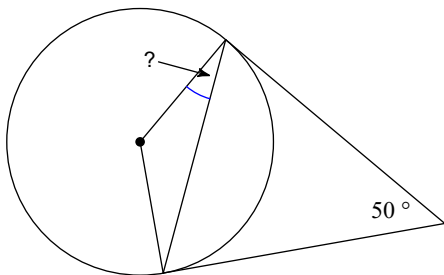
9)   9

10)   7.2
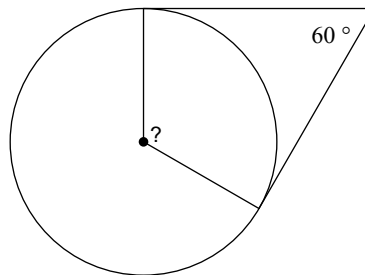
-1-

Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.

11)

? ... 50°

25°

12)

60° ... ?

120°

Find the measure of the arc or angle indicated.

13)

G ... 114°

F

?

H

57°

14)

L

?

74° ... J

K

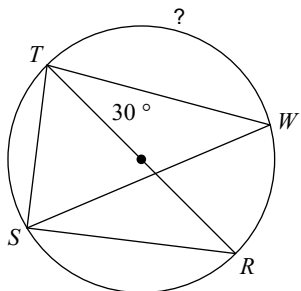**148°**
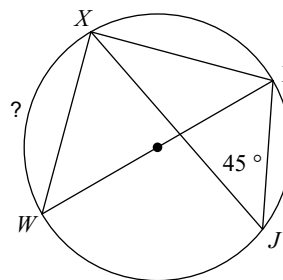
15)

?

T

30° ... W

S

R

120°

16)

X

Y

?

45°

W

J
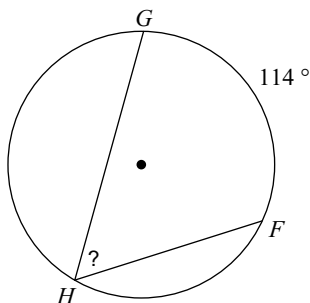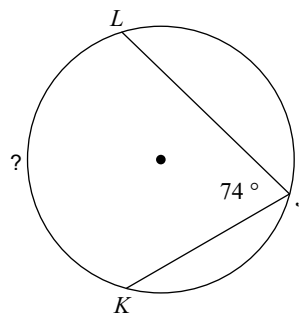
90°

Use the information provided to write the equation of each circle.

17) Center: $(12, 2)$
Radius: 3
$(x - 12)^2 + (y - 2)^2 = 9$

18) Center: $\left(-\dfrac{3}{2}, -16\right)$ $\left(x + \dfrac{3}{2}\right)^2 + (y + 16)^2 = 9$
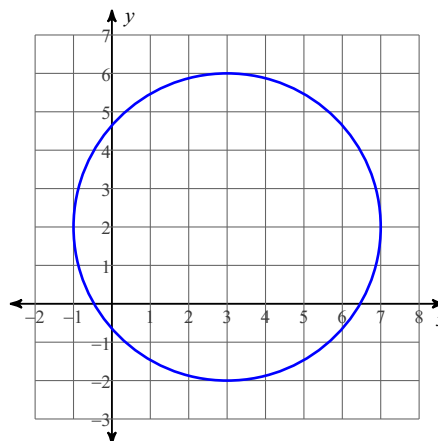Circumference: 6π

19)

$(x - 2)^2 + (y - 3)^2 = 9$

20)

$(x - 3)^2 + (y - 2)^2 = 16$