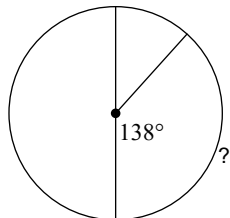


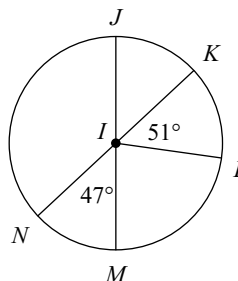
Geometry - PRACTICE Exam 3 - Spring

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1)

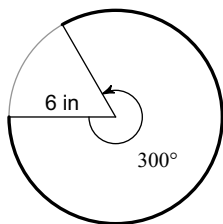


2)  $m\angle KIM$



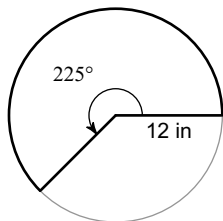
Find the length of each arc.

3)



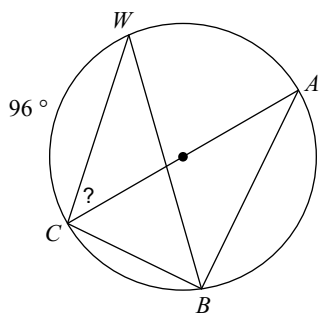
Find the area of each sector.

4)



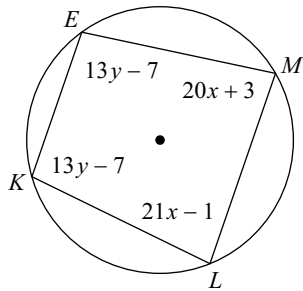
Find the measure of the arc or angle indicated.

5)



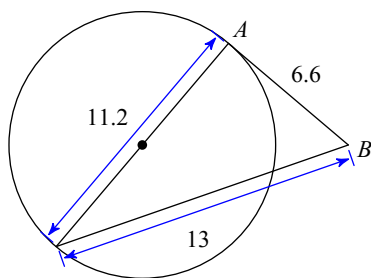
Solve for  $x$  and  $y$ .

6)



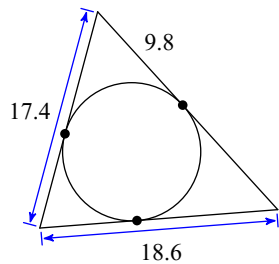
Determine if line AB is tangent to the circle.

7)



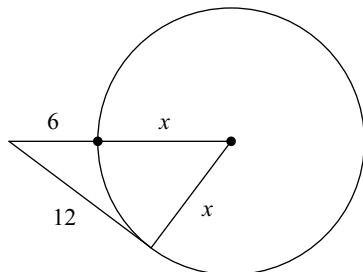
Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

8)

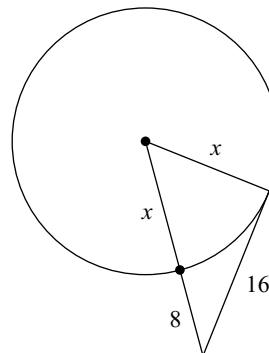


Solve for  $x$ . Assume that lines which appear to be tangent are tangent.

9)

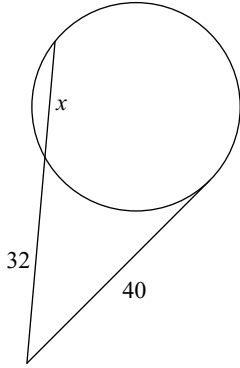


10)

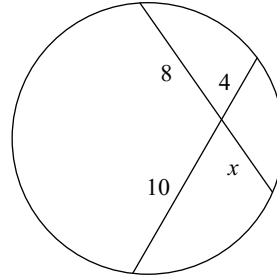


Solve for  $x$ . Assume that lines which appear tangent are tangent.

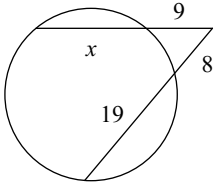
11)



12)

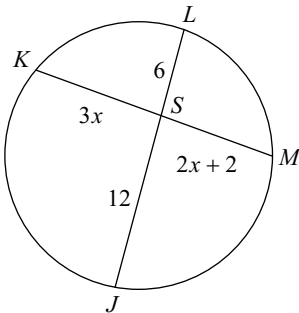


13)



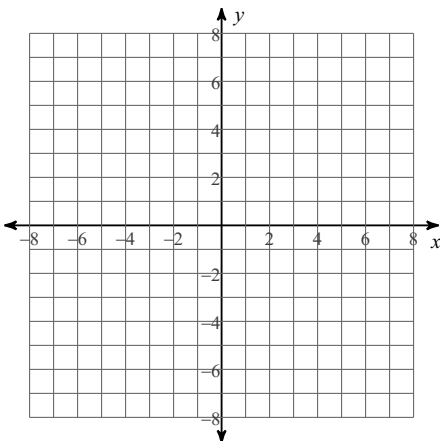
Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

14) Find  $KM$



Identify the center and radius of each. Then sketch the graph.

15)  $(x + 4)^2 + (y + 2)^2 = 1$



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

16) Center:  $(-9, 16)$   
Radius: 1

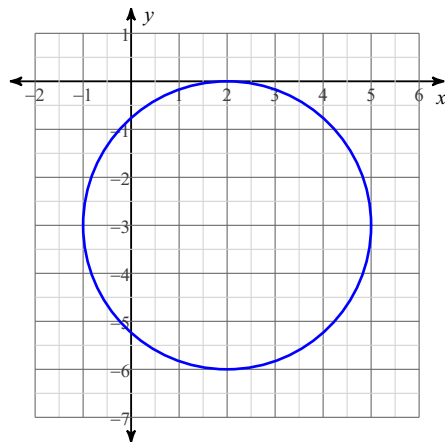
17) Center:  $(-14, -3)$   
Area:  $11\pi$

18) Center:  $(-11, 13)$   
Circumference:  $6\pi$

19) Center:  $(-8, -13)$   
Point on Circle:  $(-12, -15)$

20) Center:  $(-12, 12)$   
Tangent to  $y = 15$

21)



Convert radian to degree.

22)  $2\pi$

23)  $\pi / 2$

Convert degree to radian.

24)  $45^\circ$

Convert degree to radian.

25)  $180^\circ$

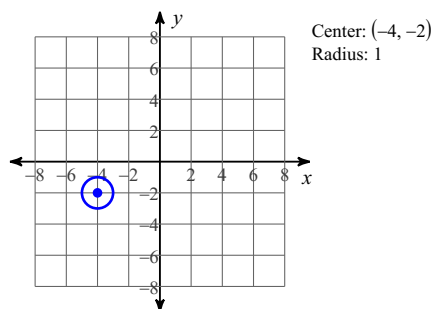
## Answers to Geometry - PRACTICE Exam 3 - Spring

- 1)  $138^\circ$
- 5)  $42^\circ$
- 9) 9
- 13) 15

- 2)  $133^\circ$
- 6)  $x = 4, y = 8$
- 10) 12
- 14) 17

- 3)  $10\pi$  in
- 7) Tangent
- 11) 18
- 15)

- 4)  $90\pi$  in<sup>2</sup>
- 8) 56.8
- 12) 5



16)  $(x + 9)^2 + (y - 16)^2 = 1$

17)  $(x + 14)^2 + (y + 3)^2 = 11$

18)  $(x + 11)^2 + (y - 13)^2 = 9$

19)  $(x + 8)^2 + (y + 13)^2 = 20$

20)  $(x + 12)^2 + (y - 12)^2 = 9$

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

22) 360

23) 90

24)  $\pi/4$

25)  $\pi$