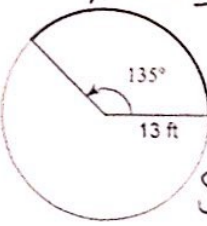


G6 C Level Review

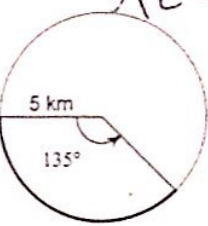
Find the arc length AND sector area.

1)  $AL = \frac{39\pi}{4} \text{ ft} = \frac{135}{360} \cdot 2 \cdot \pi \cdot (13 \text{ ft})$   
 $\approx 306.3 \text{ ft}$



$S.A. = \frac{135}{360} \cdot \pi \cdot (13 \text{ ft})^2$   
 $= \frac{567}{8} \pi \text{ ft}^2 \approx 199.10 \text{ ft}^2$

$AL = \frac{15\pi}{4} \text{ km} = \frac{135}{360} \cdot 2 \cdot \pi \cdot (5 \text{ km})$   
 $\approx 11.78 \text{ km}$



$S.A. = \frac{135}{360} \cdot \pi \cdot (5 \text{ km})^2$   
 $= \frac{75\pi}{8} \text{ km}^2 \approx 29.45 \text{ km}^2$

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

- 3) Center: (5, -2)  
 Radius: 4

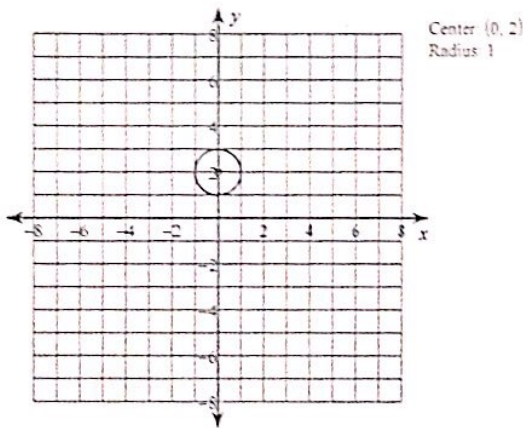
$(x - 5)^2 + (y + 2)^2 = 16$

- 4) Center: (-16, 3)  
 Radius: 1

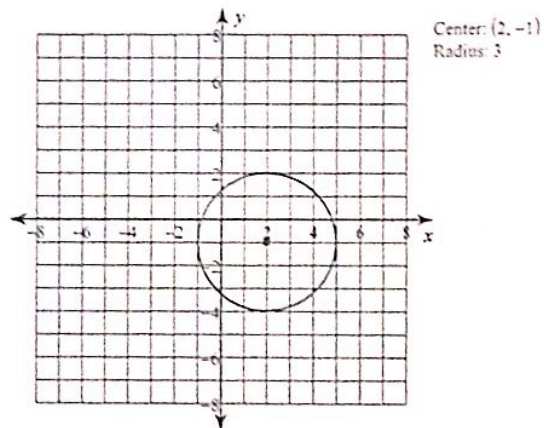
$(x + 16)^2 + (y - 3)^2 = 1$

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

5)  $x^2 + (y - 2)^2 = 1$

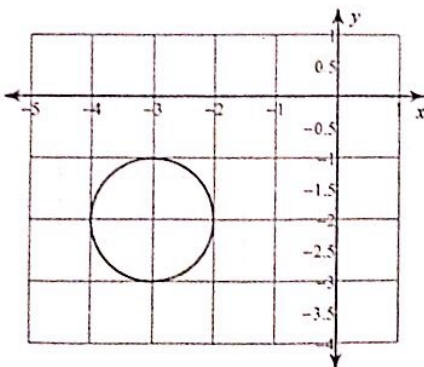


6)  $(x - 2)^2 + (y + 1)^2 = 9$



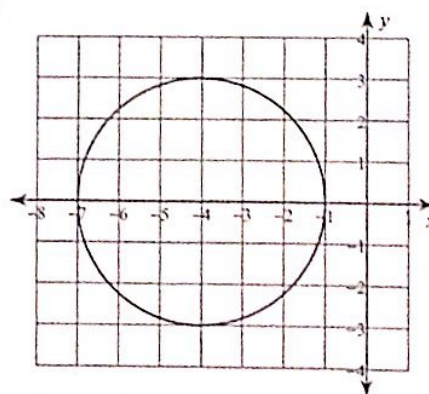
Identify the center and the radius of the following circles.

7)



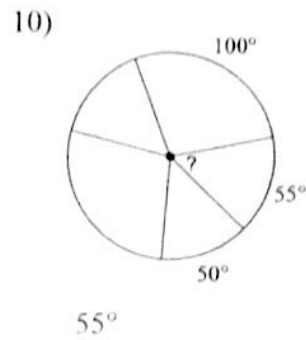
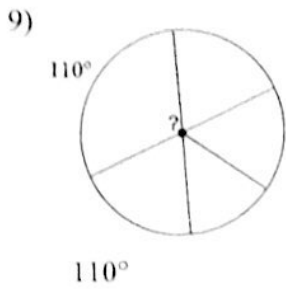
$(x + 3)^2 + (y + 2)^2 = 1$

8)

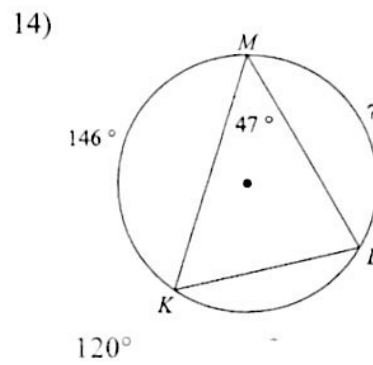
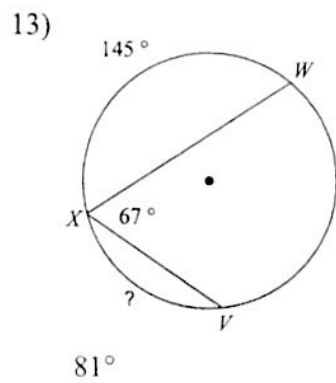
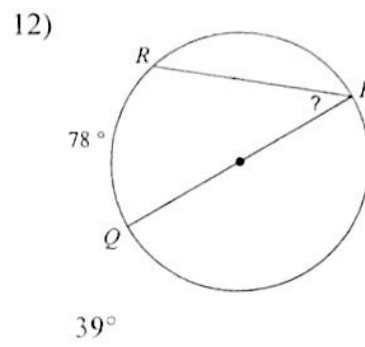
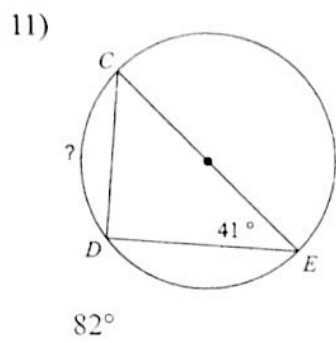


$(x + 4)^2 + y^2 = 9$

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



Find the measure of the arc or angle indicated.



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

Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

