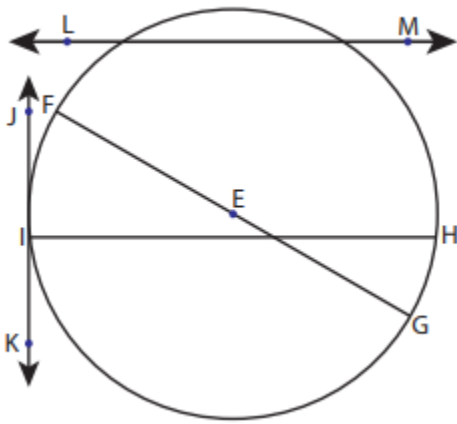


Unit 5 Honors Quiz Review

Name _____ Date _____

1. Use the picture below to answer the following.



A. Circle: _____ B. Radius: _____ C. Diameter: _____

D. Chord: _____ E. Secant: _____ H. Minor Arc: _____

F. Point of Tangency: _____ G. Tangent: _____

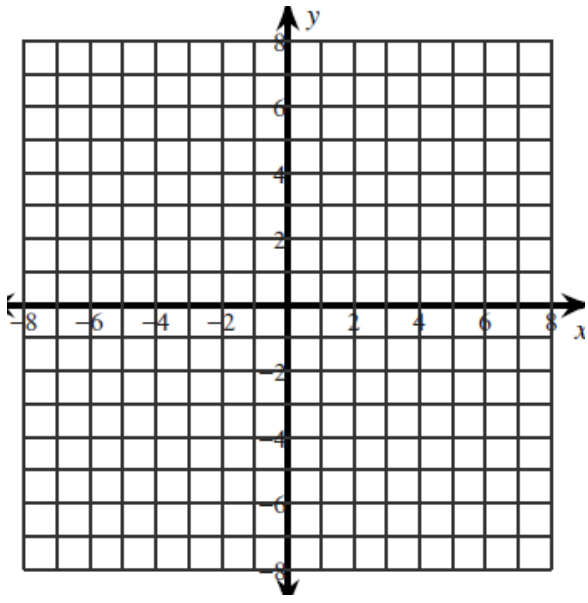
I. Major Arc: _____ J. If $FE = 6$, what is the length of GF ? _____

2. **Graph and label** the center and radius of the circle.

$$x^2 + y^2 - 4x + 8y - 5 = 0$$

Center: _____

Radius: _____

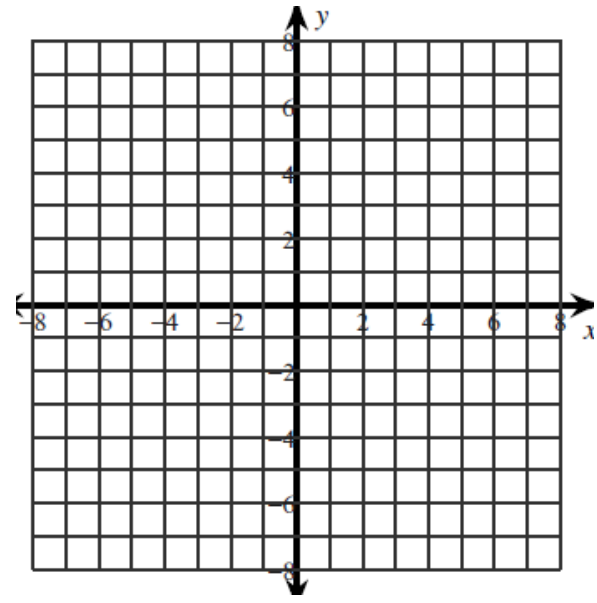


3. **Graph and label** the center and radius of the circle.

$$x^2 - 2x + y^2 + 8y = 8$$

Center: _____

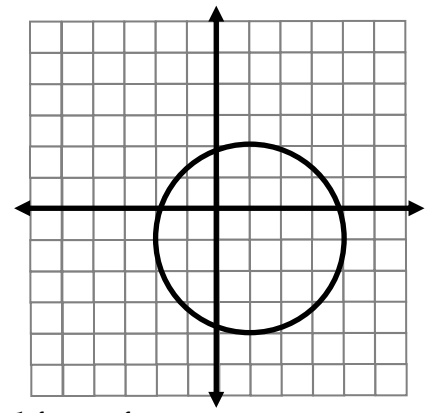
Radius: _____



3. Identify the following information given the graph to the right.

Center: _____ Radius: _____

Equation: _____



4. Identify the center and radius of the circle. Leave in simplified radical form if necessary.

$$(x + 2)^2 + y^2 = 75$$

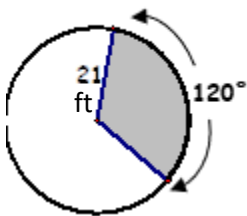
Center: _____

Radius: _____

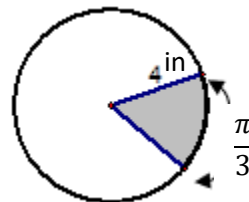
5. Write the equation of the circle in standard form with a center at (5, -3) and a point on the circle at (2,5).

6. Find the arc length of the shaded region.

a)

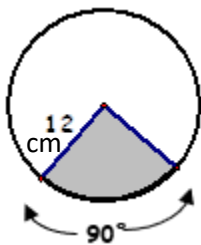


b)



8. Find the area of sector of the shaded region.

a)



b)

