NAME _____ QUARTER _____

GRADE & SECTION _____ DATE _____

Activity: Equation of a Circle

I. Write the equation of the circle in standard form given the following details.

1. The center of the circle is $(6, -2)$ with radius of 6.

   Equation: $(x \square \square)^{\square} + (y \square \square)^{\square} = \square$

2. The point $(-16,13)$ is on the circle with center $(-16,14)$.

   Radius: _____

   Equation: $(x \square \square)^{\square} + (y \square \square)^{\square} = \square$

3. The diameter of the circle has endpoints $(-16, -1)$ and $(0,11)$.

   Center: (_____ , _____)

   Radius: _____

   Equation: $(x \square \square)^{\square} + (y \square \square)^{\square} = \square$

II. Determine the center and radius of the circle.

1. The circle has an equation of $(x-2)^2 + (y+1)^2 = 16$.

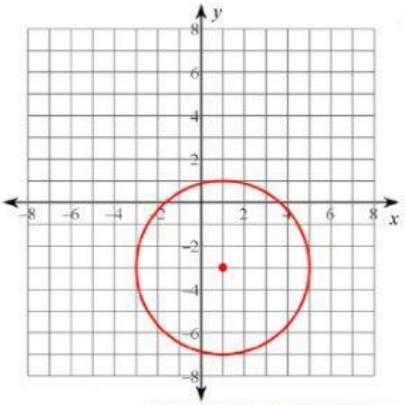
   Center: (_____ , _____)

   Radius: _____

2. The circle has an equation of $x^2 + (y-2)^2 = 25$.

   Center: (_____ , _____)

   Radius: _____

3. 

   Center: (_____ , _____)

   Radius: _____

How many attempts? ___.
How well did you do?

 Need help!  Just OK!  Splendid

I FEEL THAT…

_____

_____

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LIVEWORKSHEETS