

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

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

Radius: \quad

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

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

Center: (\quad, \quad)

Radius: \quad

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

II. Determine the center and radius of the circle.

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

Center: (\quad, \quad)

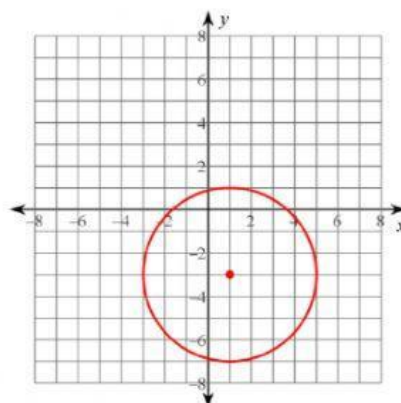
Radius: \quad

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

Center: (\quad, \quad)

Radius: \quad

3.



Center: (\quad, \quad)

Radius: \quad

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



Need help!



Just OK!



Splendid

I FEEL THAT...