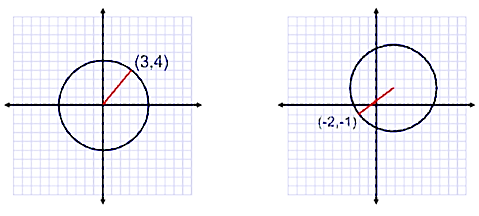
Notes: Equation of a Circle Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Warm Up**

Solve for the length of the circle’s radius.



**Equation of a Circle:**

is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 1:**

What is the equation of a circle whose center is at (4 , 5) and radius is 3?

**Example 2:**

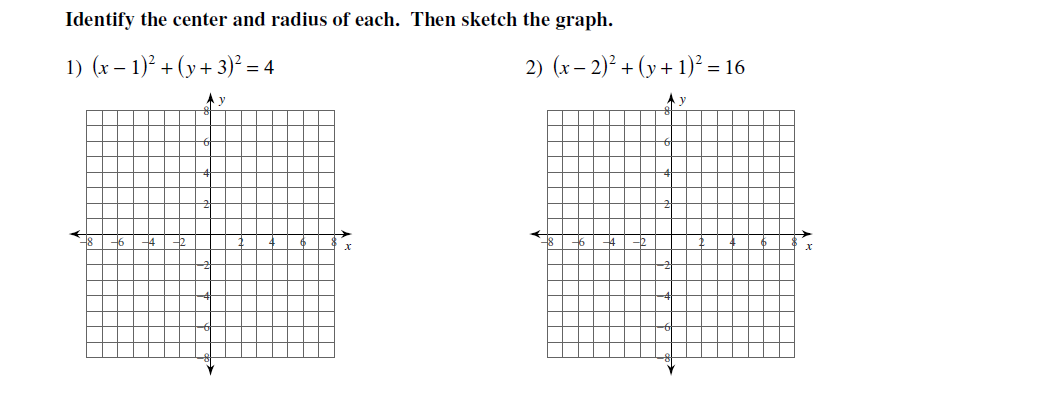
What is the equation of a circle whose center is at (-1 , 7) and radius is 4?

**Example 3:**

What is the center and the radius of the circle whose equations is .

**Example 4:**

What is the center and the radius of the circle whose equations is .

**Example 5:**

Identify the center and radius. Then sketch the graph.