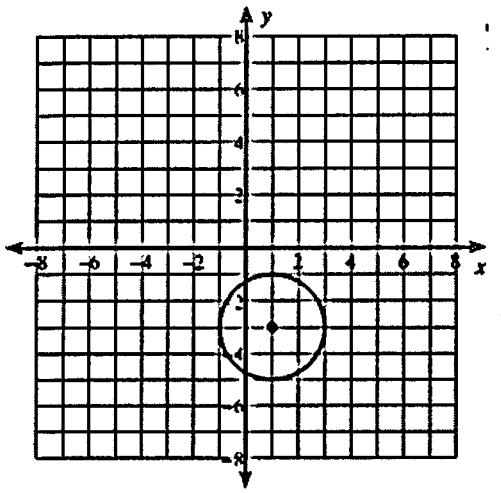
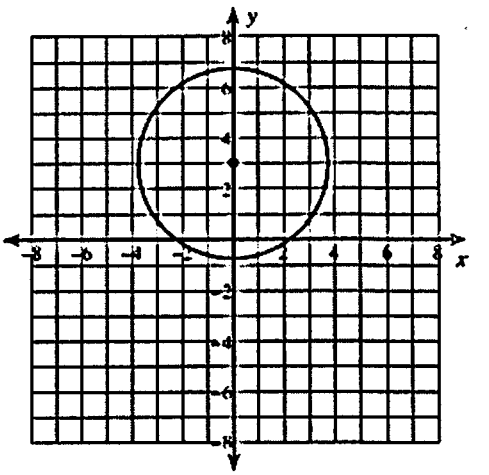
Graphing Circles **Geometery**

Directions: Find the equation of the circle.

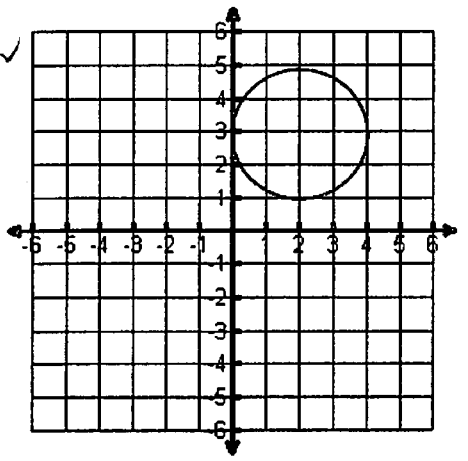
1) Equation: _____



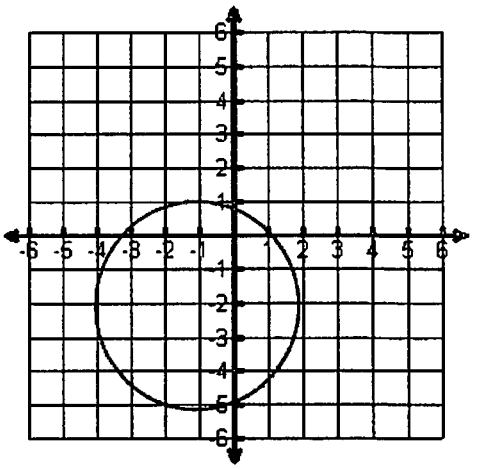
2) Equation: _____



3) Equation: _____



4) Equation: _____



Directions: Write the equation given the following information.

5) Center (3, 5) and a *radius* of 8

6) Center (1, –2) and a *diameter* of 22

7) Center (–6, 0) and a *diameter* of $\sqrt{8}$

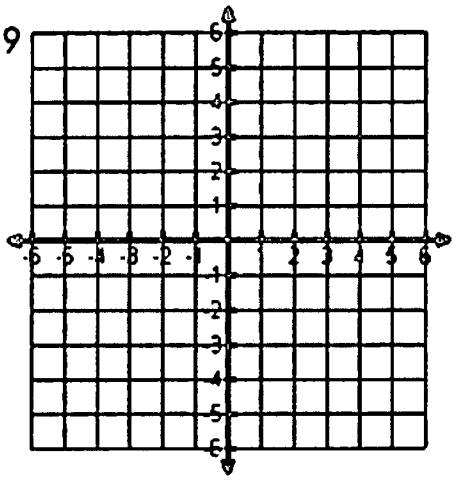
8) Center (3, –3) and a *radius* of 7

Directions: Graph the following circles. State the radius and center.

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

Center: _____

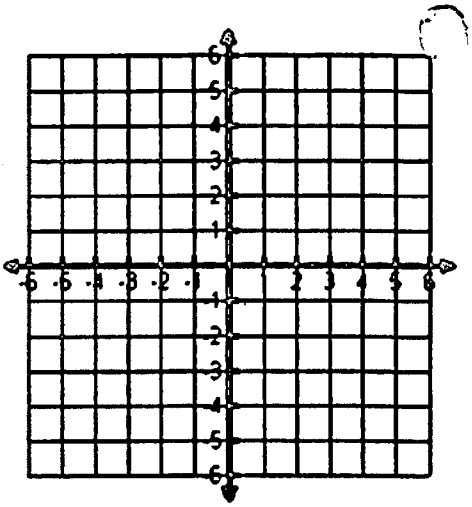
Radius: _____



10) $x^2 + y^2 = 20$

Center: _____

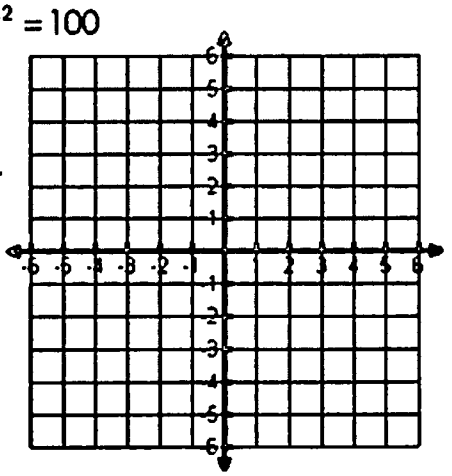
Radius: _____



11) $4x^2 + 4y^2 = 100$

Center: _____

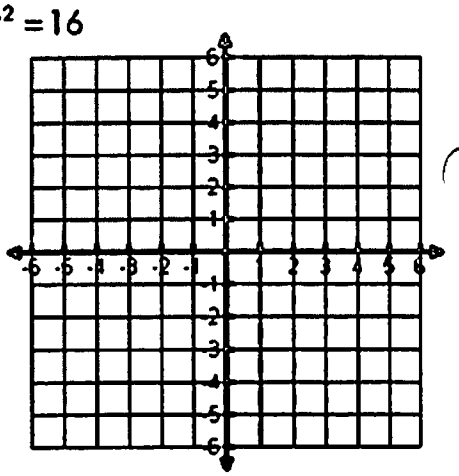
Radius: _____



12) $(x+2)^2 + y^2 = 16$

Center: _____

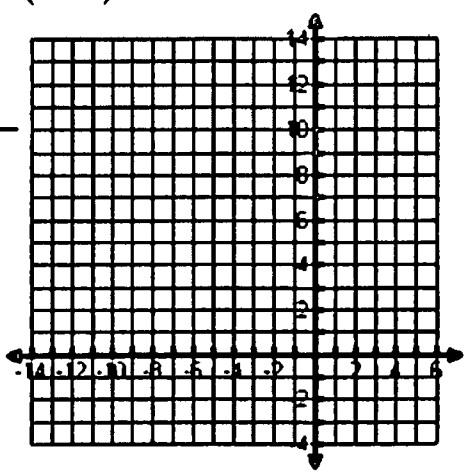
Radius: _____



13) $(x+4)^2 + (y-6)^2 = 64$

Center: _____

Radius: _____



14) $(x-3)^2 + (y-5)^2 = 50$

Center: _____

Radius: _____