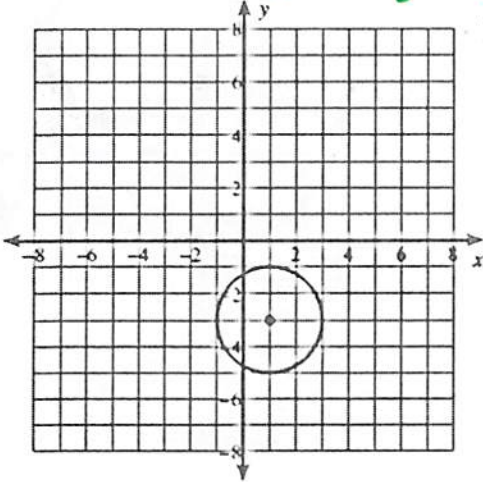
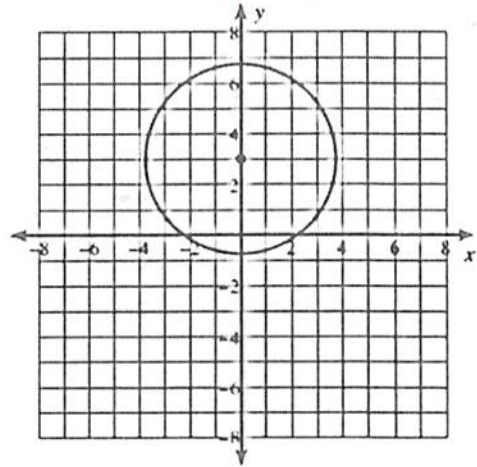


Directions: Find the equation of the circle.

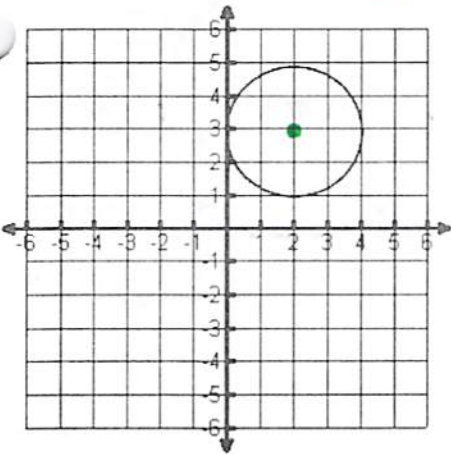
1) Equation: $(x-1)^2 + (y+3)^2 = 4$



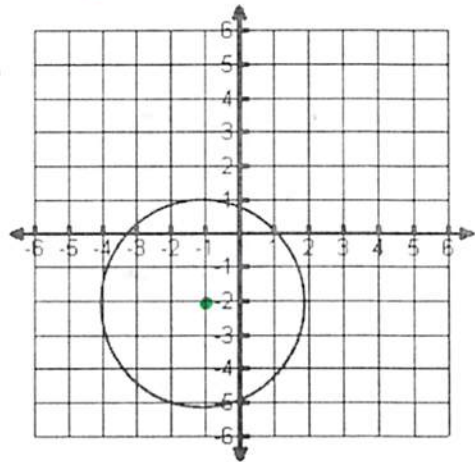
2) Equation: $x^2 + (y-3)^2 = 16$



3) Equation: $(x-2)^2 + (y-3)^2 = 4$



4) Equation: $(x+1)^2 + (y+2)^2 = 9$



Directions: Write the equation given the following information.

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

$$(x-3)^2 + (y-5)^2 = 64$$

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

$$(x-1)^2 + (y+2)^2 = 121$$

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

$$(x+6)^2 + y^2 = 2$$

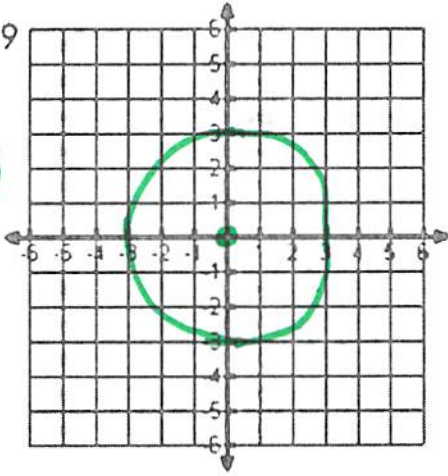
8) Center (3, -3) and a radius of 7

$$(x-3)^2 + (y+3)^2 = 49$$

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

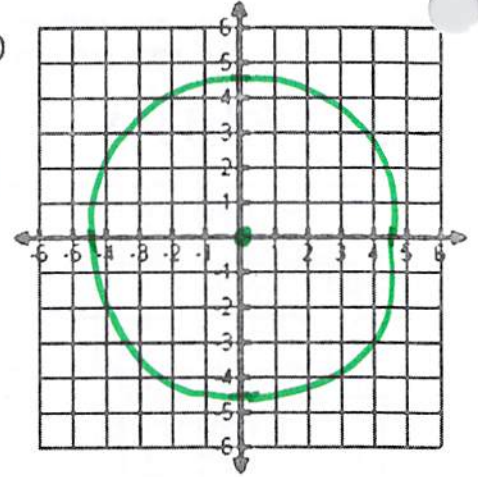
9) $x^2 + y^2 = 9$

Center: (0,0)
Radius: 3



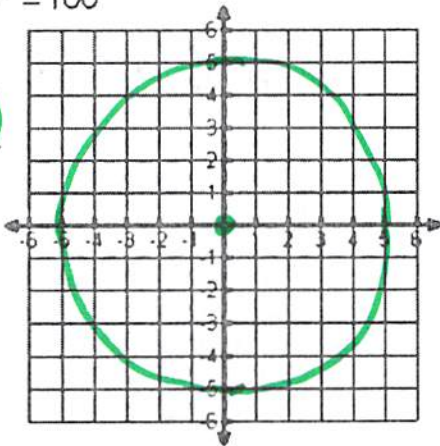
10) $x^2 + y^2 = 20$

Center: (0,0)
Radius: $\sqrt{20}$
or
4.5



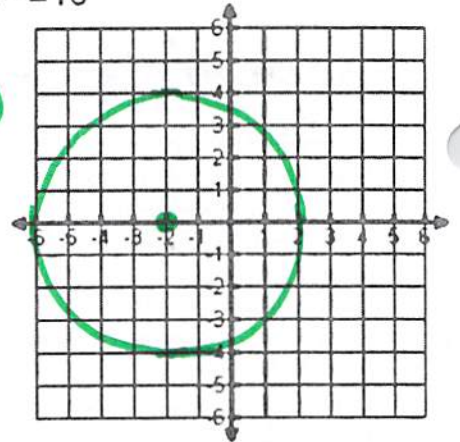
11) $4x^2 + 4y^2 = 100$

Center: (0,0)
Radius: 5



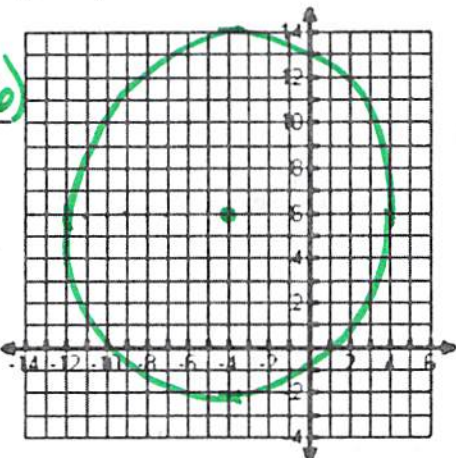
12) $(x+2)^2 + y^2 = 16$

Center: (-2,0)
Radius: 4



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

Center: (-4,6)
Radius: 8



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

Center: (3,5)
Radius: 7.1

