Math 2 Name_____

Unit 6.5 Equations of Circles PRACTICE

Period____

Use the information provided to write the equation of each circle.

1) Center: $(0, 0)$
Radius: 15

2) Center: $(0, 0)$
Radius: $\sqrt{141}$

3) Center: $(-12, -7)$
Radius: 3

4) Center: $(11, 15)$
Radius: 2

5) Center: $(1, -3)$
Radius: 14

6) Center: $(-7, 10)$
Radius: $2\sqrt{2}$

7) Center: $(-1, -4)$
Point on Circle: $(-9, -2)$

8) Center: $(-2, 6)$
Point on Circle: $(-3, 17)$

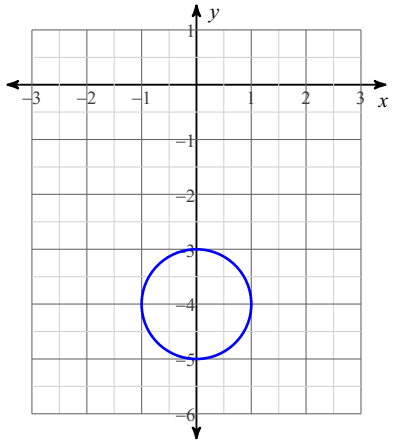
9) Center: $(7, -10)$
Circumference: $8\pi\sqrt{3}$

10) Center: $(14, -11)$
Circumference: 4π

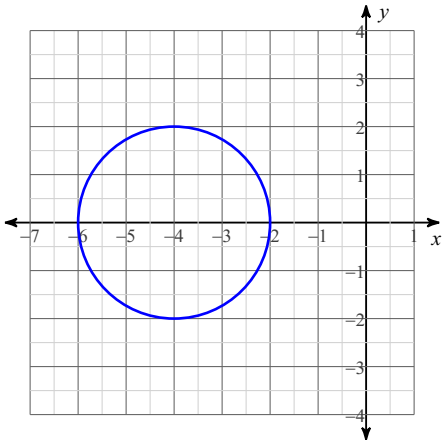
11) Center: $(-7, -7)$
Area: 25π

12) Center: $(9, -3)$
Area: 81π

13)

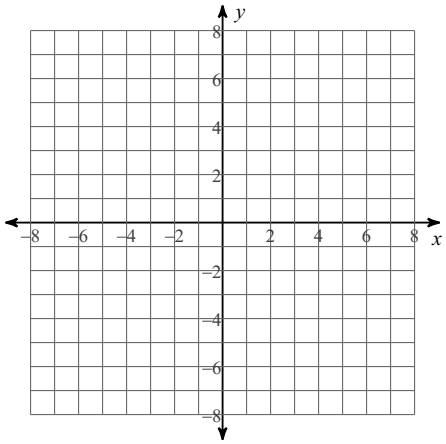


14)

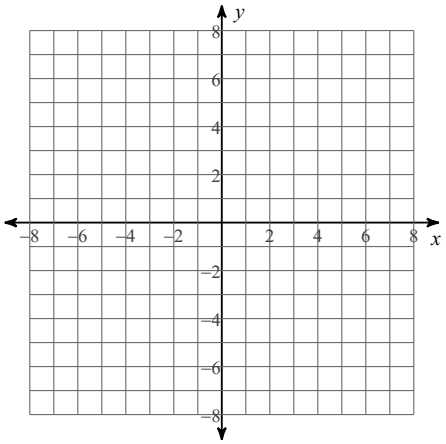


Identify the center and radius of each. Then sketch the graph.

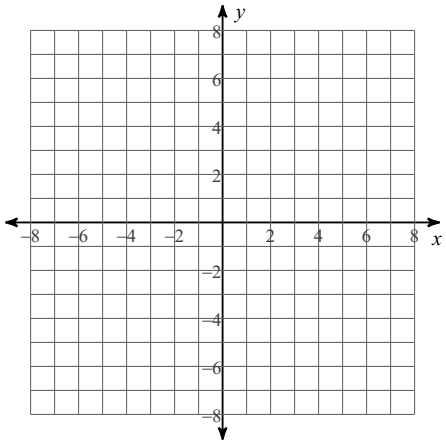
15) $x^2 + y^2 = 35$



16) $(x+4)^2 + (y-4)^2 = 1$



17) $(x+1)^2 + y^2 = 9$



18) $(x-4)^2 + (y-1)^2 = 9$