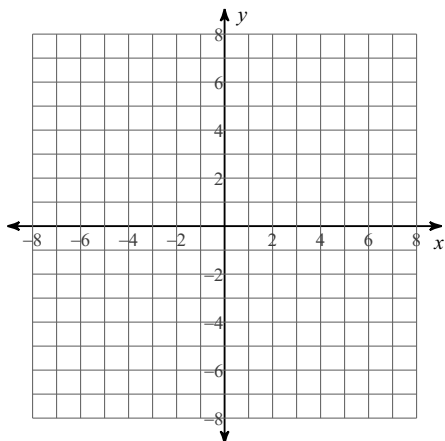


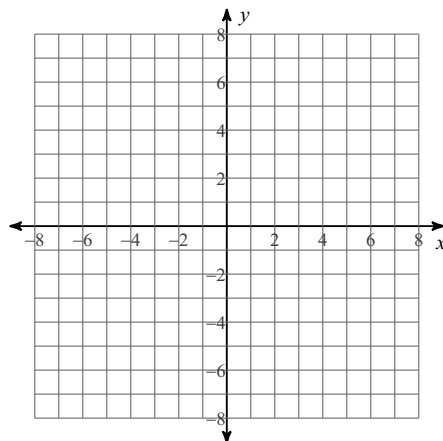
Geometry - Homework 21 - Spring

Graph each equation.

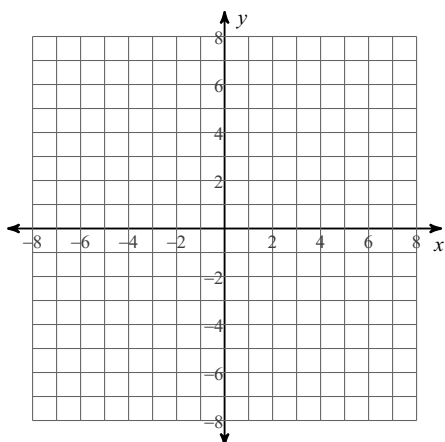
1) $x^2 + y^2 = 46$



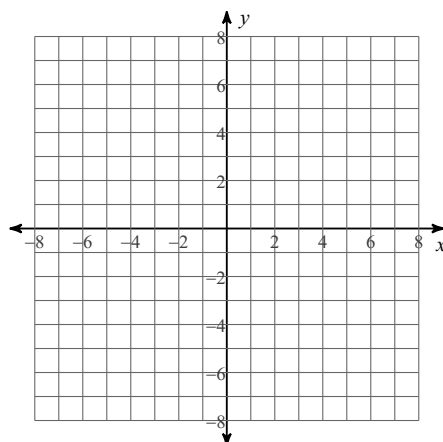
2) $x^2 + y^2 = 4$



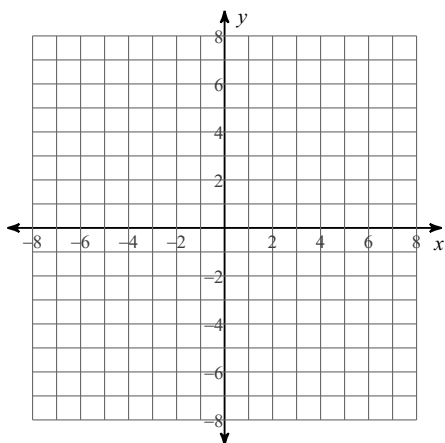
3) $x^2 + y^2 = 16$



4) $x^2 + y^2 = 1$

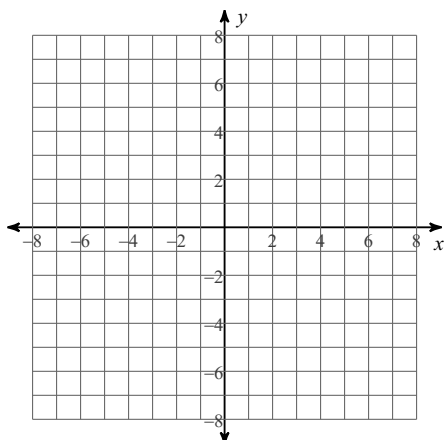


5) $x^2 + y^2 = 36$

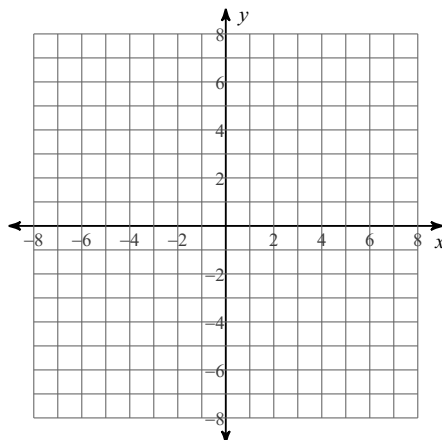


Identify the center and radius of each. Then sketch the graph.

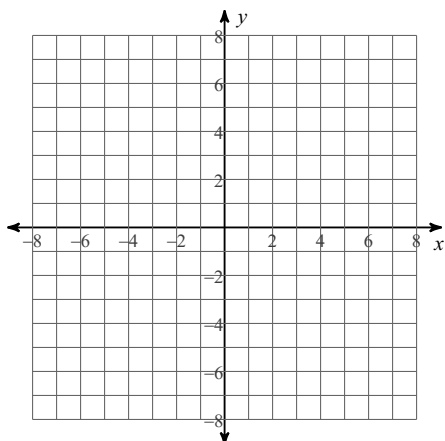
6) $(x - \sqrt{10})^2 + (y + 1)^2 = 1$



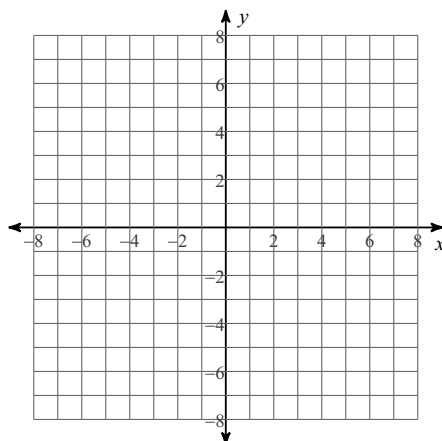
7) $\left(x - \frac{5}{2}\right)^2 + (y - \sqrt{14})^2 = 4$



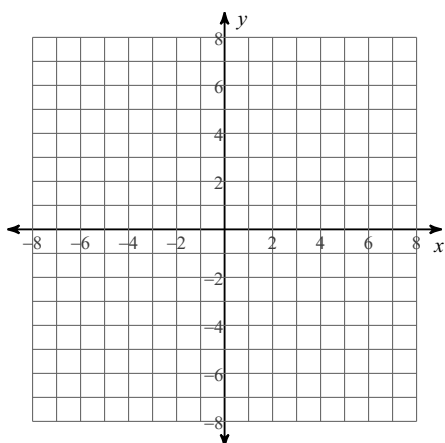
8) $(x - 4)^2 + (y - 1)^2 = 4$



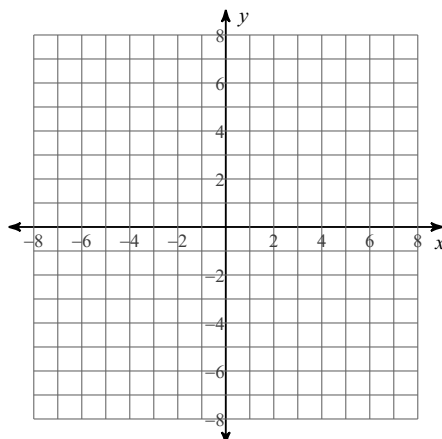
9) $(x - 4)^2 + (y + 4)^2 = 1$



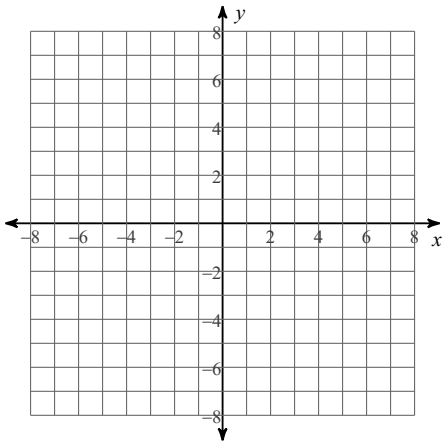
10) $\left(x - \frac{5}{2}\right)^2 + \left(y + \frac{1}{2}\right)^2 = 4$



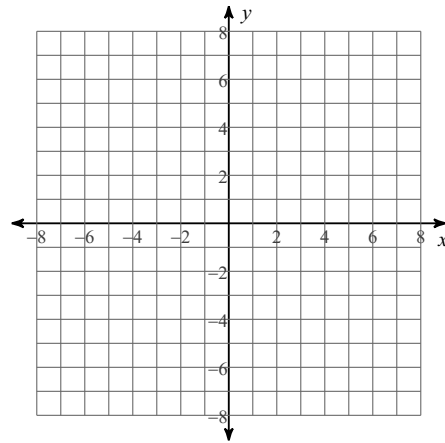
11) $(x + 3)^2 + (y - 1)^2 = 1$



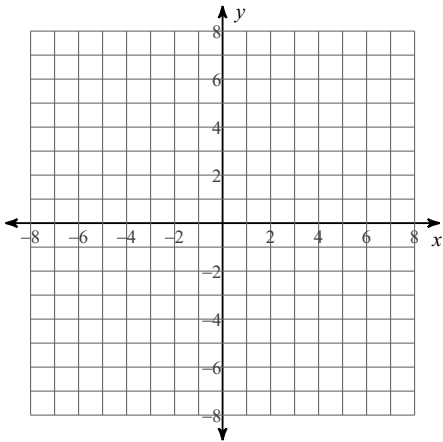
12) $(x - 1)^2 + (y - 4)^2 = 6$



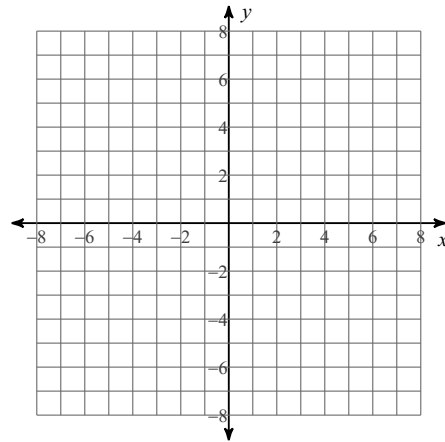
13) $x^2 + (y - 2)^2 = 9$



14) $(x - 3)^2 + (y - 3)^2 = 7$



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



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

16) Center: $(12, -10)$
Radius: 4

17) Center: $(-7, 2)$
Radius: 7

18) Center: $(-1, 0)$
Area: 16π

19) Center: $(-1, -1)$
Area: 121π

20) Center: $(9, 4)$
Circumference: 12π

21) Center: $(10, 9)$
Circumference: $2\pi\sqrt{37}$

22) Ends of a diameter: $(11, -8)$ and $(-9, 8)$

23) Ends of a diameter: $(15, -13)$ and $(-11, 9)$

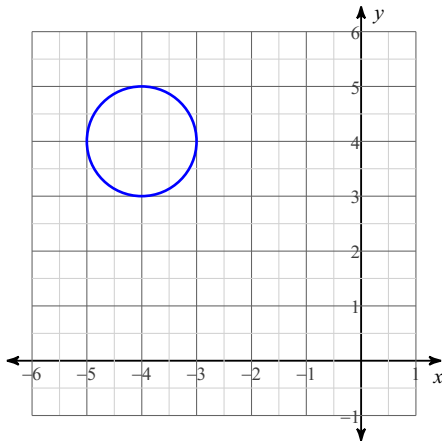
24) Center: $(13, -3)$
Tangent to $x = 11$

25) Center: $(5, -4)$
Tangent to $x = 15$

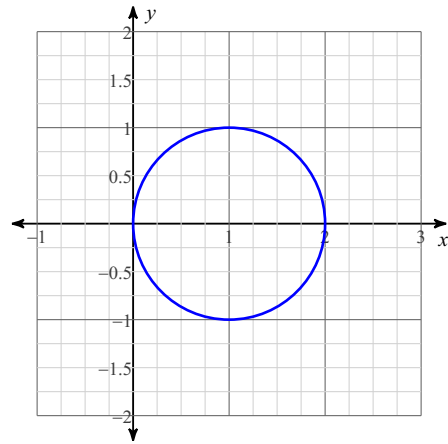
26) Center: $(7, 13)$
Point on Circle: $(13, 13)$

27) Center: $(-6, 13)$
Point on Circle: $(-7, 8)$

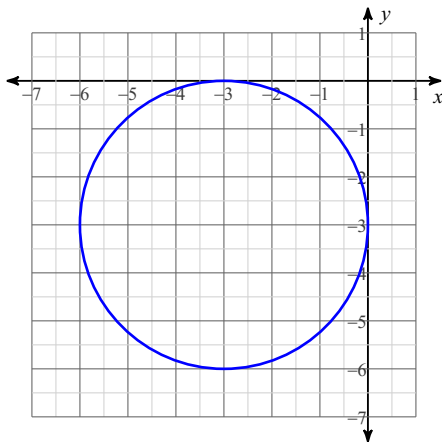
28)



29)

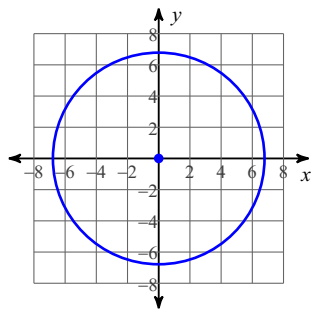


30)

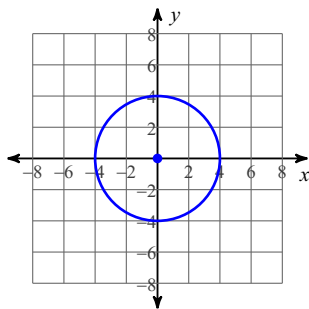


Answers to Geometry - Homework 21 - Spring

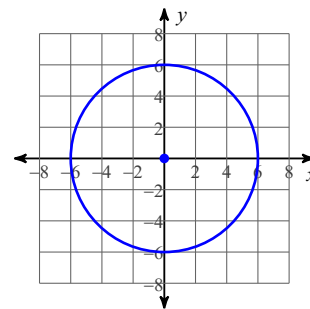
1)



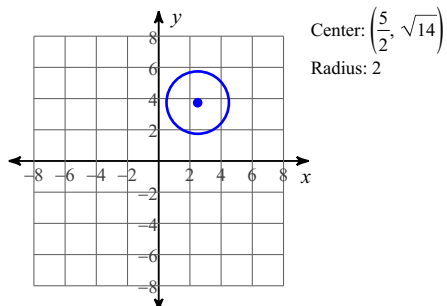
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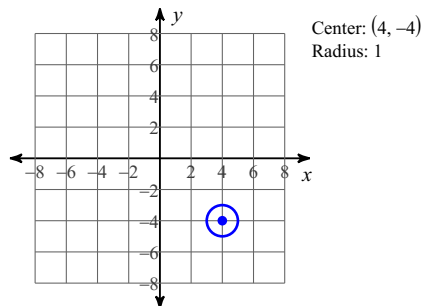
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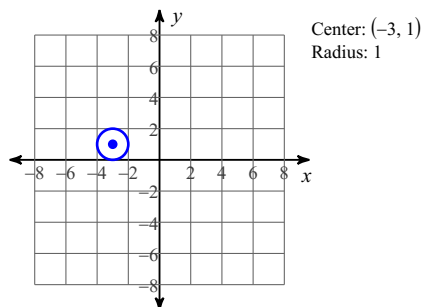
7)



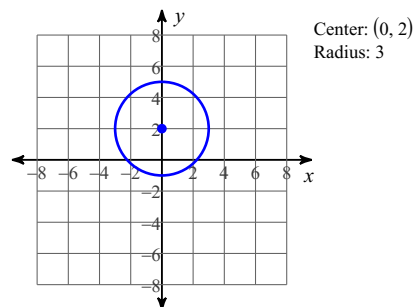
9)



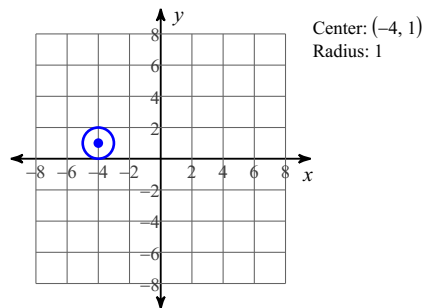
11)



13)



15)



17) $(x + 7)^2 + (y - 2)^2 = 49$

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

21) $(x - 10)^2 + (y - 9)^2 = 37$

23) $(x - 2)^2 + (y + 2)^2 = 290$

25) $(x - 5)^2 + (y + 4)^2 = 100$

27) $(x + 6)^2 + (y - 13)^2 = 26$

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