Graphing Circles Worksheet Name: _____

1-3: State the center and the radius of the given circle.

1) $(x-3)^2+(y+2)^2=9$

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

3) $(x+4)^2+(y-3)^2=12$

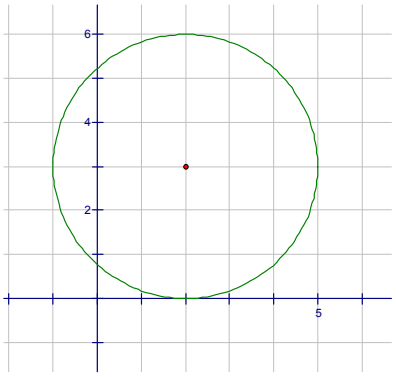
4-5: Put the following equations in standard form. State the center and the radius and then graph.

4) $(x^2-6x+9)+(y^2+10y+25)=4$

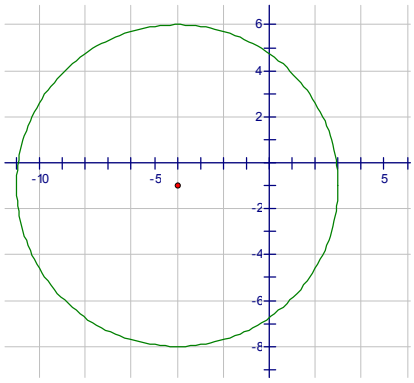
5) $x^2-8x+y^2+2y+11=0$

6-10: Find the equation of the circle in standard form.

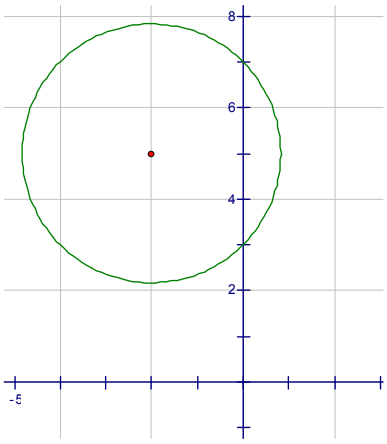
6)



7)



8)



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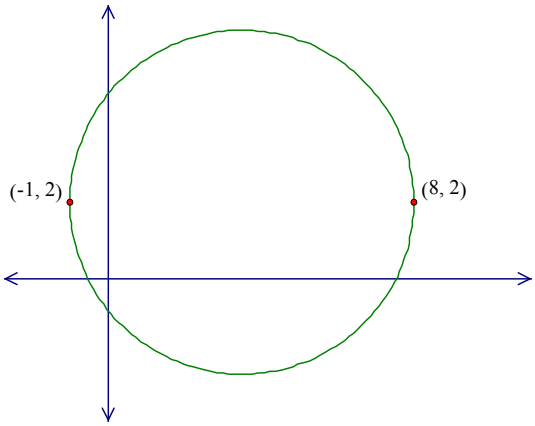

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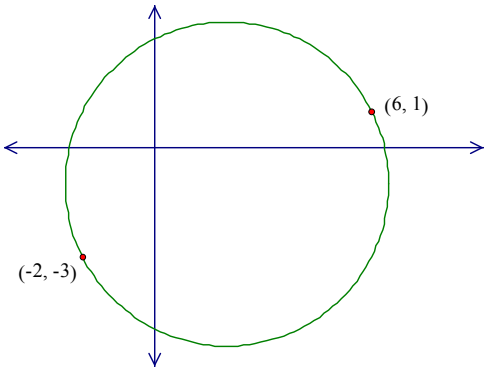

11-14: Put the following equations in standard form. State the center and the radius.

11) $x^2 - 5x + y^2 + 4y = -3$

12) $3y + x^2 + y^2 - 6x + 10 = 0$

13) $-5 + 2x + 2y + x^2 = -y^2$

14) $2x^2 - 12x + y^2 + 4y = -2$