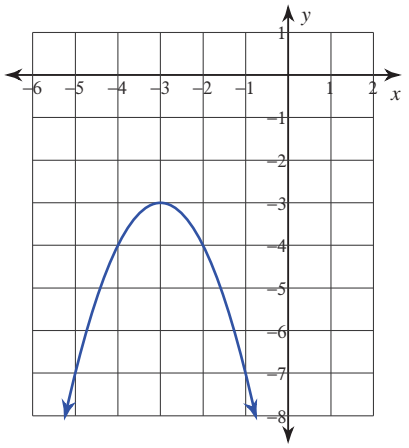
Algebra 2 Name_____

Chap 10 Practice Test, Ver 2

Date_____ Period____

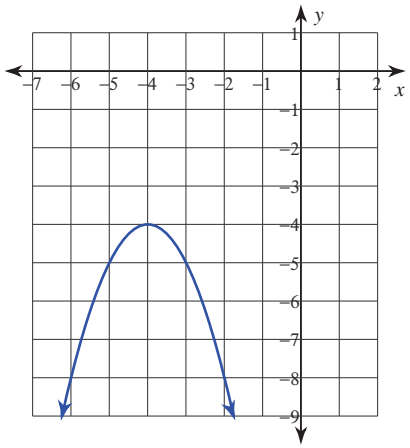
Use the information provided to write the vertex form equation of each parabola.

1)



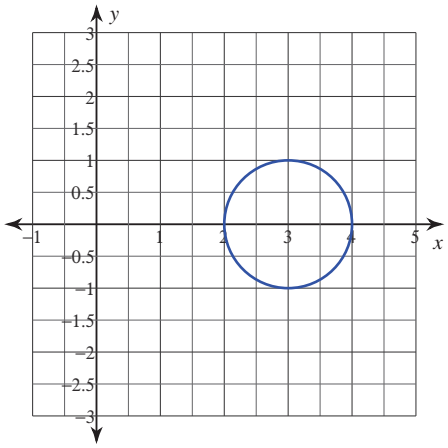
Use the information provided to write the standard form equation of each parabola.

2)

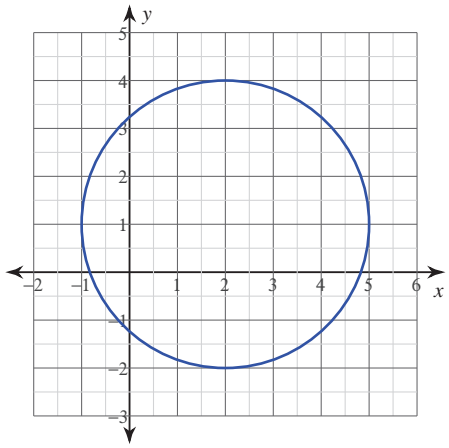


Use the information provided to write the standard form equation of each circle.

3)

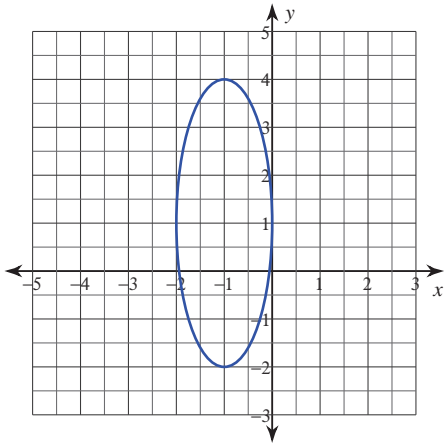


4)

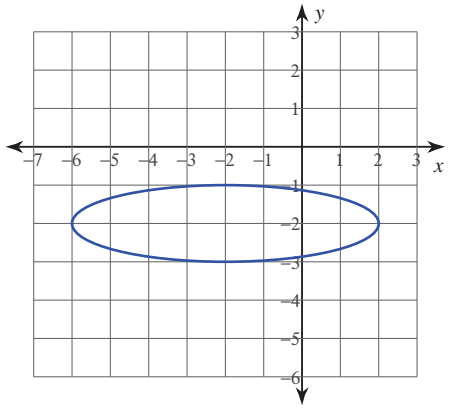


Use the information provided to write the standard form equation of each ellipse.

5)

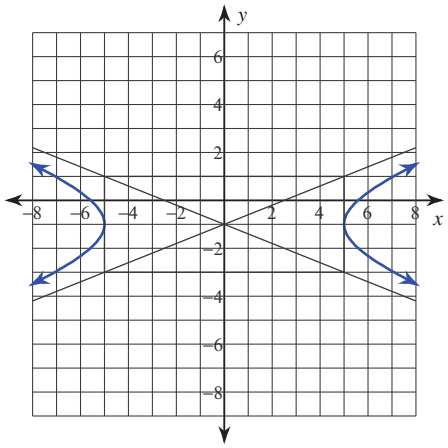


6)

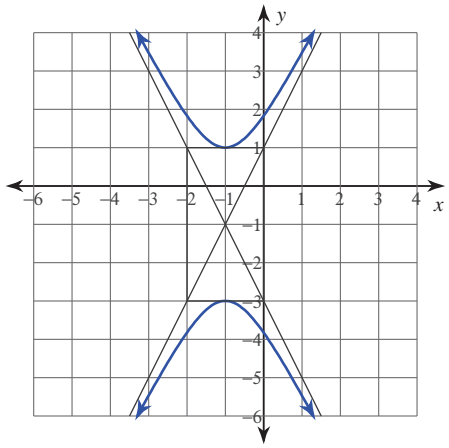


Use the information provided to write the standard form equation of each hyperbola.

7)

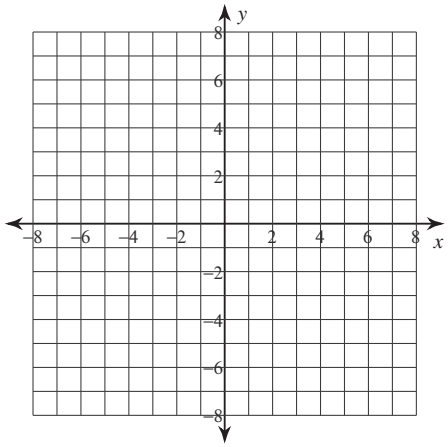


8)

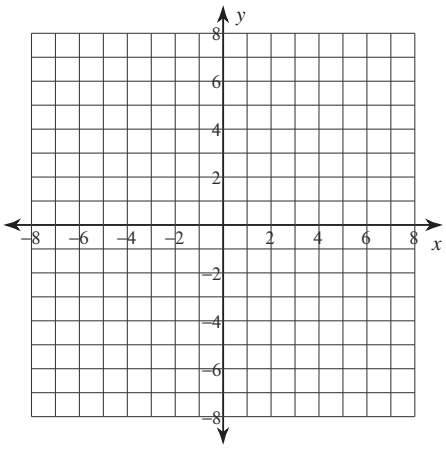


Identify the vertex and axis of symmetry of each. Then sketch the graph.

9) $y = (x + 5)^2 + 3$

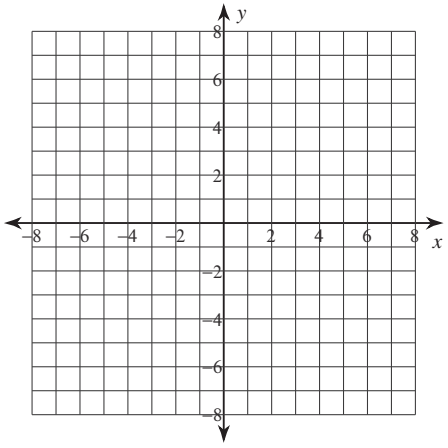


10) $y = 2x^2 - 2$

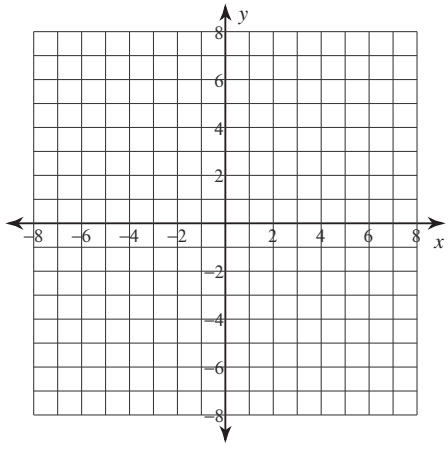


Identify the center and radius of each. Then sketch the graph.

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

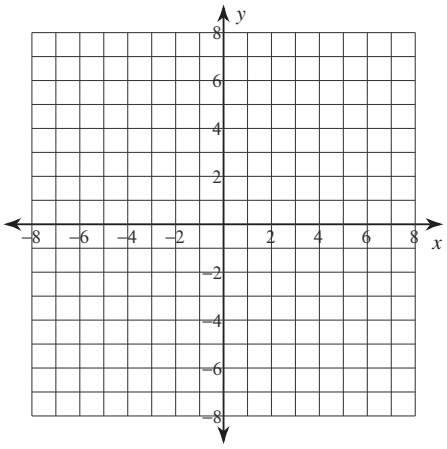


12) $x^2 + y^2 - 2x - 8y + 8 = 0$

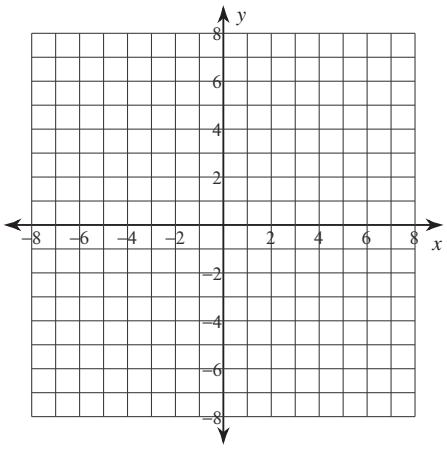


Identify the vertices and foci of each. Then sketch the graph.

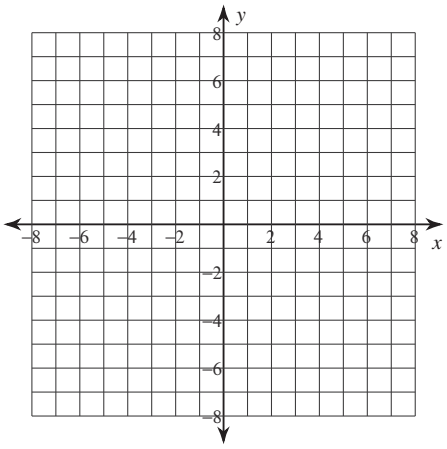
13) $\frac{(x+1)^2}{10} + \frac{(y+1)^2}{5} = 1$



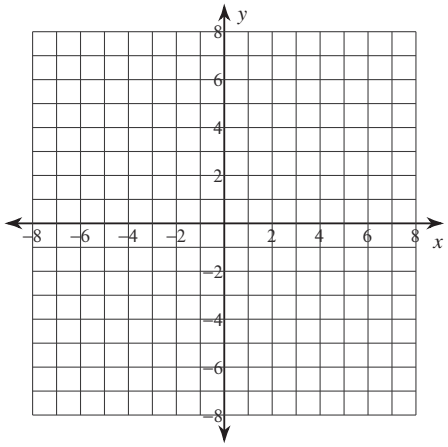
14) $25x^2 + 4y^2 - 200x + 16y + 316 = 0$



15) $\frac{x^2}{25} - \frac{y^2}{25} = 1$



16) $-x^2 + 4y^2 + 24y + 20 = 0$



Classify each conic section.

17) $(x+3)^2 + \left(y - \frac{3}{2}\right)^2 = 4$

18) $\frac{y^2}{25} - \frac{x^2}{16} = 1$

19) $y = -\frac{1}{2}(x-2)^2 - 1$

20) $\frac{\left(x - \frac{1}{2}\right)^2}{20} + \frac{\left(y - \frac{1}{2}\right)^2}{15} = 1$