Name _____ Date _____

Practice Set 10.5
Graphs of Quadratic Equations

Determine if the parabola, whose equation is given, opens upward or downward.

1. $y = x^2 - 3x + 1$ 1. _____

2. $y = -2x^2 + 5x - 2$ 2. _____

Find the *x*-intercepts for the parabola whose equation is given.

3. $y = x^2 - 5x + 4$ 3. _____

4. $y = -x^2 - 7x - 12$ 4. _____

Find the *y*-intercept for the parabola whose equation is given.

5. $y = x^2 - 7x + 5$ 5. _____

6. $y = -x^2 - 2x + 4$ 6. _____

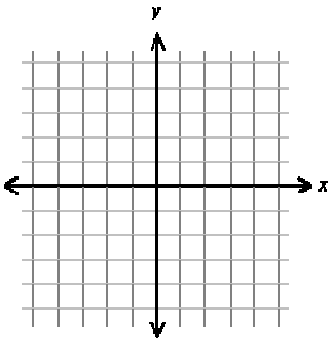
Find the vertex for the parabola whose equation is given.

7. $y = x^2 + 2x - 3$ 7. _____

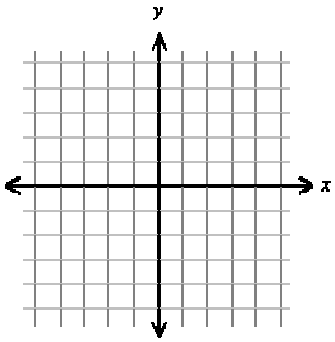
8. $y = -x^2 - 4x - 3$ 8. _____

Graph the parabola whose equation is given.

9. $y = -x^2 - 2x + 3$



10. $y = x^2 - 6x + 5$



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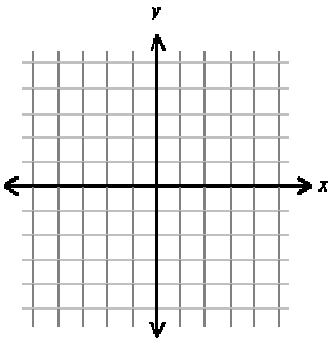
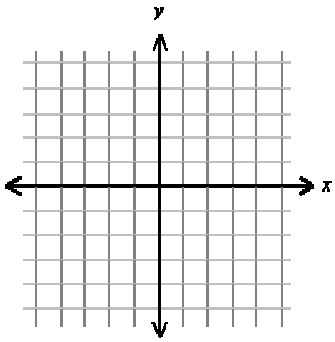
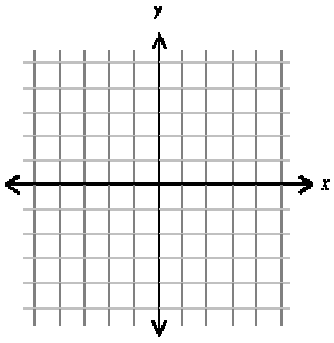
11. $y = 2x^2 + 6x + 4$



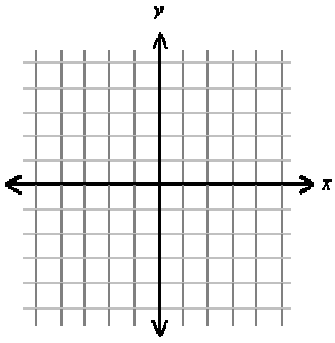
12. $y = x^2 - 1$



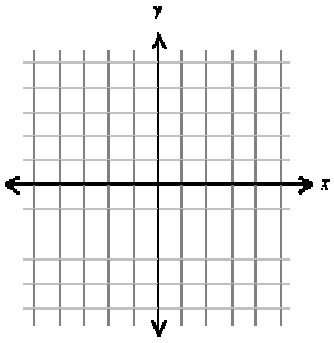
13. $y = -x^2 + 8$



14. $y = 3x^2 + 4x + 1$



15. $y = -x^2 + 4$



16. $y = -x^2 - 4x + 5$