

Tell whether the quadratic function is in *standard form* or *vertex form*.

1. $x^2 - 35x$	2. $(x - 3)^2$	3. $\frac{2}{3}(x + 7)^2$	4. $x^2 + 24x$
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Identify the vertex of the quadratic function in VERTEX form.

5. $(x - 1)^2$	6. $(x - 5)^2$	7. $(x - 3)^2$	8. $(x - 4)^2$
9. $(x - 3)^2$	10. $(x - 4)^2$	11. $\frac{1}{2}(x + 1)^2$	12. $(x - 10)^2$

Identify the vertex of the quadratic function in STANDARD form. Remember to use $x = \frac{-b}{2a}$

13. $x^2 + 31x$	14. $x^2 + 11x$	15. $x^2 + 4x$
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Given a quadratic equation in vertex form, find the vertex, axis of symmetry, whether the graph opens up or down, the maximum or minimum, and the y-intercept. Graph it!

16. $(x - 4)^2$

Vertex: _____

Axis of symmetry: _____

Opens: up down

Maximum Minimum

Max/Min Value: _____

y-intercept: _____

