

A quadratic function

$$f(x) = ax^2 + bx + c$$

A parabola is

A vertex is

An axis of symmetry

$$f(x) = ax^2 + bx + c$$

When a is positive,

When a is negative,

$$f(x) = ax^2 + bx + c$$

If $|a| > 1$,

If $|a| < 1$,

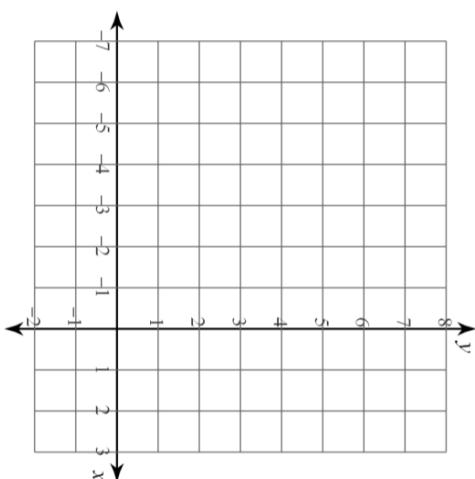
$$f(x) = ax^2 + bx + c$$

The axis of symmetry

$$f(x) = ax^2 + bx + c$$

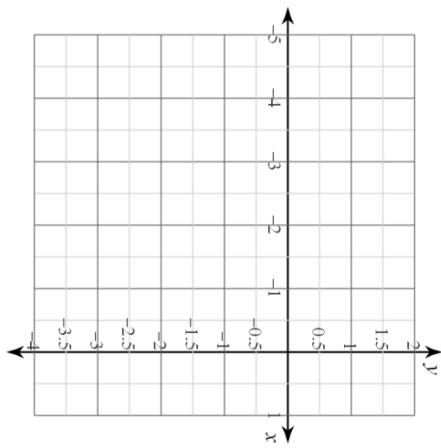
The y-intercept

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



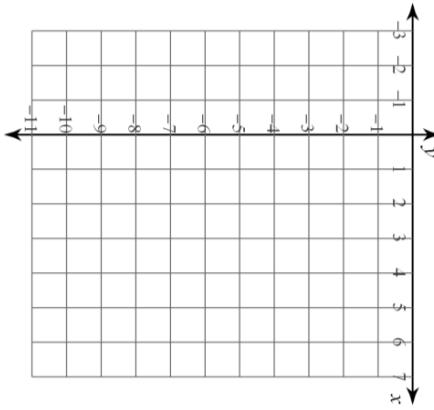
$$y = -x^2 - 6x - 8$$

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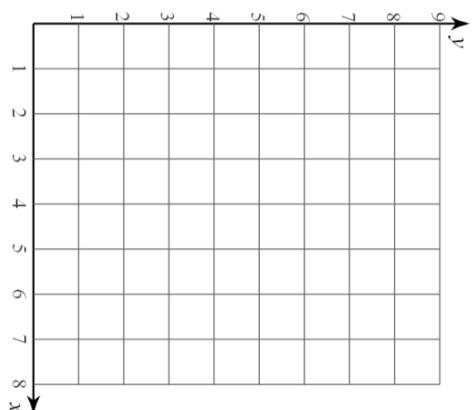
$$y = -2x^2 + 8x - 10$$

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$$y = x^2 - 6x + 13$$

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

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