

Quadratic - Converting to Vertex Form #1

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Question 1

Convert the following quadratic function into vertex form.

$$y = -2x^2 + 8x + 1$$

Question 4

Convert the following quadratic function into vertex form.

$$y = x^2 + 2x + 2$$

Question 2

Convert the following quadratic function into vertex form.

$$y = -3x^2 + 6x + 2$$

Question 5

Determine the coordinates of the vertex of the following quadratic function and state whether the vertex represents a minimum or a maximum.

$$y = x^2 + 6x - 1$$

Question 3

Convert the following quadratic function into vertex form.

$$y = 3x^2 + 12x + 2$$

Question 6

Convert the following quadratic function into vertex form.

$$y = 2x^2 + 4x + 3$$

Question 7

Determine the coordinates of the vertex of the following quadratic function and state whether the vertex represents a minimum or a maximum.

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

Question 8

Convert the following quadratic function into vertex form.

$$y = 0.5x^2 + 2x - 6$$

Question 9

Convert the following quadratic function into vertex form.

$$y = -\frac{1}{2}x^2 + 4x + 2$$

Question 10

Convert the following quadratic function into vertex form.

$$y = -2x^2 + 4x - 3$$