

Quadratic Function - Vertex Form

Sheet 3

Find a quadratic function with the given vertex and passing through the given point.

- 1) Vertex $(2, -1)$; passes through $(4, 3)$. 2) Vertex $(5, 4)$; passes through $(-2, -5)$.

- 3) Vertex $(3, 4)$; pas: _____ ; passes through $(5, 6)$.

- 5) Vertex $(0, 3)$; pas: _____ passes through $(-6, -3)$.

- 7) Vertex $(5, -2)$; passes through $(10, 1)$. 8) Vertex $(-5, 9)$; passes through $(-4, 2)$.

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Find a quadratic function with the given vertex and passing through the given point.

- 1) Vertex (2, -1) ; passes through (4, 3). 2) Vertex (5, 4) ; passes through (-2, -5).

$$f(x) = (x - 2)^2 - 1$$

$$f(x) = -\frac{9}{25}(x - 5)^2 + 4$$

- 3) Vertex (3, 4) ; passes through (5, 6) ; passes through (5, 6).

$$f(x) = -\frac{5}{9}(x - 3)^2 - 3$$

- 5) Vertex (0, 3) ; passes through (-6, -3).

$$f(x) = -\frac{1}{9}x^2 + 3$$

- 7) Vertex (5, -2) ; passes through (10, 1). 8) Vertex (-5, 9) ; passes through (-4, 2).

$$f(x) = \frac{3}{25}(x - 5)^2 - 2$$

$$f(x) = -7(x + 5)^2 + 9$$

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