

Quadratic Function - Vertex Form

Sheet 2

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

- 1) Vertex $(0, -4)$; passes through $(6, -1)$. 2) Vertex $(6, -2)$; passes through $(7, 9)$.

- 3) Vertex $(7, 2)$; pas: _____ ; passes through $(6, -4)$.

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

- 7) Vertex $(10, 3)$; passes through $(-6, 7)$. 8) Vertex $(-5, 0)$; passes through $(-3, -8)$.

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

- 1) Vertex (0, -4) ; passes through (6, -1). 2) Vertex (6, -2) ; passes through (7, 9).

$$f(x) = \frac{1}{12}x^2 - 4$$

$$f(x) = 11(x - 6)^2 - 2$$

- 3) Vertex (7, 2) ; passes through (6, -4). ; passes through (6, -4).

$$f(x) = -\frac{5}{81}(x - 7)^2 - 8$$

$$f(x) = (x - 4)^2 - 8$$

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

$$f(x) = \frac{1}{36}(x + 2)^2 + 5$$

$$f(x) = (x - 4)^2 + 5$$

- 7) Vertex (10, 3) ; passes through (-6, 7). 8) Vertex (-5, 0) ; passes through (-3, -8).

$$f(x) = \frac{1}{64}(x - 10)^2 + 3$$

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

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