

Quadratic Function - Vertex

Sheet 2

Find the vertex of each quadratic function.

1) $f(x) = -2x^2 - 8x + 1$

2) $f(x) = (x - 3)^2 + 2$

3) $f(x) = -(x + 2)(x + 8)$

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5) $f(x) = 2(3x - 3)^2 - 5$

7) $f(x) = 4(x^2 - 6x + 7)$

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9) $f(x) = -5x^2 + 6x - 9$

10) $f(x) = (2x + 1)(2x - 9)$

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Find the vertex of each quadratic function.

1) $f(x) = -2x^2 - 8x + 1$

2) $f(x) = (x - 3)^2 + 2$

Vertex is $(-2, 9)$ **Vertex is $(3, 2)$**

3) $f(x) = -(x + 2)(x + 8)$

Vertex is $(-5, -9)$ **Vertex is $(-5, -9)$**

5) $f(x) = 2(x - 1)(x - 6) - 5$

Vertex is $(1, -5)$ **Vertex is $(1, -5)$**

7) $f(x) = 4(x - 3)^2 - 6x + 7$

Vertex is $(3, -2)$ **Vertex is $(3, -2)$**

9) $f(x) = -5x^2 + 6x - 9$

10) $f(x) = (2x + 1)(2x - 9)$

Vertex is $(\frac{3}{5}, -\frac{36}{5})$ **Vertex is $(2, -25)$**

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