

Vertex Form

Sheet 3

Write each quadratic function in vertex form.

1) $f(x) = 3x^2 - 18x - 39$

2) $f(x) = (x + 6)(x - 8)$

3) $f(x) = 5(2x +$

$4x^2 + 25x + 16$

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

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$(x - 11)(x - 1)$

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

$10x^2 + 10x + 23$

9) $f(x) = 4(x + 3)(x - 4)$

10) $f(x) = 5x^2 - 9x - 10$

Vertex Form

Sheet 3

Write each quadratic function in vertex form.

1) $f(x) = 3x^2 - 18x - 39$

$$f(x) = 3(x - 3)^2 - 66$$

2) $f(x) = (x + 6)(x - 8)$

$$f(x) = (x - 1)^2 - 49$$

3) $f(x) = 5(2x +$

$4x^2 + 25x + 16$

$$f(x) = 10\left(x +$$

$$4\left(x + \frac{25}{8}\right)^2 - \frac{369}{16}$$

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

$(x - 11)(x - 1)$

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

$$x - 6)^2 - 25$$

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

$10x^2 + 10x + 23$

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

$$f(x) = 10\left(x + \frac{1}{2}\right)^2 + \frac{41}{2}$$

9) $f(x) = 4(x + 3)(x - 4)$

10) $f(x) = 5x^2 - 9x - 10$

$$f(x) = 4\left(x - \frac{1}{2}\right)^2 - 49$$

$$f(x) = 5\left(x - \frac{9}{10}\right)^2 - \frac{281}{20}$$

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