

Vertex Form

Sheet 2

Write each quadratic function in vertex form.

1) $f(x) = -2x^2 + 36x + 170$

2) $f(x) = 8(2x - 2)(x - 5)$

3) $f(x) = (x + 6)(x + 5)$

$5x^2 + 8x + 2$

5) $f(x) = 3x^2 + 2x - 1$

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$(x + 7)(4x - 2)$

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

$9x^2 + 6x - 12$

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9) $f(x) = x^2 + 4x - 15$

10) $f(x) = 6(x - 1)(x + 3)$

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Sheet 2

Write each quadratic function in vertex form.

1) $f(x) = -2x^2 + 36x + 170$

2) $f(x) = 8(2x - 2)(x - 5)$

$$f(x) = -2(x - 9)^2 + 332$$

$$f(x) = 16(x - 3)^2 - 64$$

3) $f(x) = (x + 6)(5x^2 + 8x + 2)$

$$f(x) = \left(x + \frac{5}{2}\right)$$

$$5\left(x + \frac{4}{5}\right)^2 - \frac{6}{5}$$

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

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$$(x + 7)(4x - 2)$$

$$f(x) = 3\left(x + \frac{1}{3}\right)$$

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$$4\left(x + \frac{13}{4}\right)^2 - \frac{225}{4}$$

7) $f(x) = 10(x + 2)$

$$9x^2 + 6x - 12$$

$$f(x) = 10\left(x - \frac{2}{2}\right)$$

$$9\left(x + \frac{1}{3}\right)^2 - 13$$

9) $f(x) = x^2 + 4x - 15$

10) $f(x) = 6(x - 1)(x + 3)$

$$f(x) = (x + 2)^2 - 19$$

$$f(x) = 6(x + 1)^2 - 24$$