

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