

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

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

$9x^2 + 6x - 12$

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

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