

$f(x) = -2x^2 - 6x$	$f(x) = (x-1)^2 + 2$	$f(x) = x^2 + 6x + 5$	$f(x) = 2(x-2)^2 + 5$
$f(x) = -(x-7)^2 + 10$	$f(x) = 3x^2 + 30x + 67$	$f(x) = -9x^2 + 24x - 10$	$f(x) = -3(x+1/3)^2 + 4/3$
$f(x) = x^2 - 2x + 3$	$f(x) = (x+3)^2 - 4$	$f(x) = 25x^2 + 60x + 27$	$f(x) = -(3x-4)^2 + 6$
$f(x) = -4(x+8)^2 - 6$	$f(x) = -x^2 + 14x - 39$	$f(x) = 25x^2 + 60x + 27$	$f(x) = -(3x-4)^2 + 6$
$f(x) = -4x^2 - 64x - 262$	$f(x) = (5x+6)^2 - 9$	$f(x) = 2(x+1/4)^2 - 1/8$	$f(x) = -2x^2 + 8x + 3$
$f(x) = -2(x-2)^2 + 11$	$f(x) = -3x^2 - 2x + 1$	$f(x) = 3(x+5)^2 - 8$	$f(x) = 2x^2 - 8x + 13$

## Dynamic Dominos

1. Cut out each domino.
2. Use FOIL, Order of Operations, and/or Completing the Square to change to/from vertex form or standard form.

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$$f(x) = -4x^2 - 64x - 262$$

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

$$f(x) = 25x^2 + 60x + 27$$

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$$f(x) = -9x^2 + 24x - 10$$

$$f(x) = -3(x+1/3)^2 + 4/3$$

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

# Answer Key

$$f(x) = 2(x+1/4)^2 - 1/8$$

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

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

$$f(x) = -2(x-2)^2 + 11$$

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

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