

## Intercept Form

Sheet 3

Write each quadratic function in intercept form.

1)  $f(x) = 2x^2 - 7x - 15$

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

3)  $f(x) = -(x + 4)^2 - 7$

$7x^2 - 26x + 8$

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

$x^2 - 19x + 6$

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7)  $f(x) = x^2 - 8x + 16$

$(x + 7)^2 - 4$

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

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

**Intercept Form**

Sheet 3

Write each quadratic function in intercept form.

1)  $f(x) = 2x^2 - 7x - 15$

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

$$f(x) = 2(x - 5)\left(x + \frac{3}{2}\right)$$

$$f(x) = (x + 2)(x + 4)$$

3)  $f(x) = -(x + 4)^2 - 7$

$7x^2 - 26x + 8$

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

$$7\left(x - \frac{2}{7}\right)(x + 4)$$

5)  $f(x) = x^2 - 4x - 6$

$x^2 - 19x + 6$

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

$$\left(x - \frac{1}{3}\right)(x - 6)$$

7)  $f(x) = x^2 - 8x + 15$

$(x + 7)^2 - 4$

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

$(x + 9)(x + 5)$

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

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

$$f(x) = -4(x + 3)(x + 1)$$

$$f(x) = 8x\left(x - \frac{3}{8}\right)$$

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