

## Intercept Form

Sheet 2

Write each quadratic function in intercept form.

1)  $f(x) = -7x^2 + 23x - 6$

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

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

$x^2 + 10x + 8$

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

$5(x - 1)^2 + 20$

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7)  $f(x) = (x - 6)$

$x^2 - 49$

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9)  $f(x) = -(x - 8)^2 + 36$

10)  $f(x) = x^2 - 2\sqrt{2}x + 2$

## Intercept Form

Sheet 2

Write each quadratic function in intercept form.

1)  $f(x) = -7x^2 + 23x - 6$

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

$$f(x) = -7(x - 3)\left(x - \frac{2}{7}\right)$$

$$f(x) = (x + 7)(x + 1)$$

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

$x^2 + 10x + 8$

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

$$)(x + 4)(x + 1)$$

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

$5(x - 1)^2 + 20$

$$f(x) = 3x(x$$

$$5(x - 3)(x + 1)$$

7)  $f(x) = (x - 6)$

$x^2 - 49$

$$f(x) = (x - 4)$$

$$x - 7)(x + 7)$$

9)  $f(x) = -(x - 8)^2 + 36$

10)  $f(x) = x^2 - 2\sqrt{2}x + 2$

$$f(x) = -(x - 14)(x - 2)$$

$$f(x) = (x - \sqrt{2})^2$$

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