

Quadratic Function - Intercept Form

Sheet 2

Find a quadratic function with the given zeros and passing through the given point.

1) zeros: $x = -1, x = 2$

passes through $(-5, 7)$.

2) zeros: $x = 0, x = \frac{1}{4}$

passes through $(1, -3)$.

3) zeros: $x = \frac{7}{2},$
passes through

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9, $x = -2$

ough $(5, -4)$.

5) zeros: $x = -5,$
passes through

$\frac{5}{4}, x = -4$

ough $(-1, 9)$.

7) zeros: $x = -\frac{3}{2}, x = -\frac{4}{3}$

passes through $(2, -4)$.

8) zeros: $x = 3, x = -8$

passes through $(-2, -6)$.

Quadratic Function - Intercept Form

Sheet 2

Find a quadratic function with the given zeros and passing through the given point.

- 1) zeros: $x = -1, x = 2$
passes through $(-5, 7)$.

$$f(x) = \frac{1}{4}(x + 1)(x - 2)$$

- 2) zeros: $x = 0, x = \frac{1}{4}$
passes through $(1, -3)$.

$$f(x) = -4x\left(x - \frac{1}{4}\right)$$

- 3) zeros: $x = \frac{7}{2},$
passes through

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- 9, $x = -2$
through $(5, -4)$.

$$f(x) = \frac{1}{30}\left(x - \frac{7}{2}\right)\left(x - 9\right)$$

$$\left(x - 9\right)\left(x + 2\right)$$

- 5) zeros: $x = -5,$
passes through

- $\frac{5}{4}, x = -4$
through $(-1, 9)$.

$$f(x) = -\frac{1}{3}x\left(x + 5\right)$$

$$\left(x - \frac{5}{4}\right)\left(x + 4\right)$$

- 7) zeros: $x = -\frac{3}{2}, x = -\frac{4}{3}$
passes through $(2, -4)$.

- 8) zeros: $x = 3, x = -8$
passes through $(-2, -6)$.

$$f(x) = -\frac{12}{35}\left(x + \frac{3}{2}\right)\left(x + \frac{4}{3}\right)$$

$$f(x) = \frac{1}{5}(x - 3)(x + 8)$$