

Quadratic Function - Intercept Form

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

1) zeros: $x = -8, x = -4$
passes through $(-1, -6)$.

2) zeros: $x = \frac{4}{5}, x = 3$
passes through $(-2, 5)$.

3) zeros: $x = -3,$
passes through

PREVIEW

0, $x = -\frac{2}{3}$
through $(-3, -7)$.

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5) zeros: $x = \frac{2}{5},$
passes through

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$\frac{5}{2}, x = 7$
through $(2, 8)$.

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7) zeros: $x = 7, x = -1$
passes through $(1, 9)$.

8) zeros: $x = -5, x = 2$
passes through $(3, -5)$.

Quadratic Function - Intercept Form

Sheet 3

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

- 1) zeros: $x = -8, x = -4$
passes through $(-1, -6)$.

$$f(x) = -\frac{2}{7}(x + 8)(x + 4)$$

- 2) zeros: $x = \frac{4}{5}, x = 3$
passes through $(-2, 5)$.

$$f(x) = \frac{5}{14}\left(x - \frac{4}{5}\right)(x - 3)$$

- 3) zeros: $x = -3,$
passes through

$$f(x) = -\frac{2}{35}x(x + \frac{2}{3})$$

PREVIEW

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- 0, $x = -\frac{2}{3}$
through $(-3, -7)$.

- 5) zeros: $x = \frac{2}{5},$
passes through

$$f(x) = \frac{2}{9}\left(x - \frac{2}{5}\right)\left(x - \frac{5}{2}\right)$$

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

- $\frac{5}{2}, x = 7$
through $(2, 8)$.

- 7) zeros: $x = 7, x = -1$
passes through $(1, 9)$.

$$f(x) = -\frac{3}{4}(x - 7)(x + 1)$$

- 8) zeros: $x = -5, x = 2$
passes through $(3, -5)$.

$$f(x) = -\frac{5}{8}(x + 5)(x - 2)$$