

Quadratic Function - Intercept Form

Sheet 1

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

1) zeros: $x = 6, x = -2$

passes through $(1, 2)$.

2) zeros: $x = -3, x = 1$

passes through $(-8, 5)$.

3) zeros: $x = \frac{1}{7},$
passes through

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$\frac{3}{4}, x = 4$
through $(3, 9)$.

5) zeros: $x = 5, x = 0$
passes through

$x = 6$
through $(-4, -5)$.

7) zeros: $x = -1, x = -5$
passes through $(9, 7)$.

8) zeros: $x = \frac{2}{5}, x = \frac{1}{3}$
passes through $(-1, -4)$.

Quadratic Function - Intercept Form

Sheet 1

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

1) zeros: $x = 6, x = -2$

passes through $(1, 2)$.

$$f(x) = -\frac{2}{15}(x - 6)(x + 2)$$

2) zeros: $x = -3, x = 1$

passes through $(-8, 5)$.

$$f(x) = \frac{1}{6}(x + 3)(x - 1)$$

3) zeros: $x = \frac{1}{7},$

passes through

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$\frac{3}{4}, x = 4$

through $(3, 9)$.

$$f(x) = -\frac{7}{36}x$$

$$\left(x - \frac{3}{4}\right)(x - 4)$$

5) zeros: $x = 5,$

passes through

$0, x = 6$

through $(-4, -5)$.

$$f(x) = \frac{8}{25}(x$$

$$x(x - 6)$$

7) zeros: $x = -1, x = -5$

passes through $(9, 7)$.

$$f(x) = \frac{1}{20}(x + 1)(x + 5)$$

8) zeros: $x = \frac{2}{5}, x = \frac{1}{3}$

passes through $(-1, -4)$.

$$f(x) = -\frac{15}{7}\left(x - \frac{2}{5}\right)\left(x - \frac{1}{3}\right)$$