

Quadratic Function - Intercepts

Find the x -intercept and y -intercept of each quadratic function.

1) $f(x) = x^2 + 9x + 18$

 x -intercepts are _____ y -intercept is _____

2) $f(x) = 3(x + 4)(x - 5)$

 x -intercepts are _____ y -intercept is _____

3) $f(x) = (x + 2)^2 - 16$

 x -intercepts are _____ y -intercept is _____

4) $f(x) = 2x^2 + 6x + 4$

 x -intercepts are _____ y -intercept is _____

5) $f(x) = (2x + 1)(3x + 2)$

 x -intercepts are _____ y -intercept is _____

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

 x -intercepts are _____ y -intercept is _____

9) $f(x) = 4x^2 + 8x$

 x -intercepts are _____ y -intercept is _____

10) $f(x) = (2x + 3)^2 - 81$

 x -intercepts are _____ y -intercept is _____

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Quadratic Function - InterceptsFind the x -intercept and y -intercept of each quadratic function.

1) $f(x) = x^2 + 9x + 18$

 x -intercepts are **$(-3, 0)$ and $(-6, 0)$** y -intercept is **$(0, 18)$**

2) $f(x) = 3(x + 4)(x - 5)$

 x -intercepts are **$(-4, 0)$ and $(5, 0)$** y -intercept is **$(0, -60)$**

3) $f(x) = (x + 2)^2 - 16$

 x -intercepts are _____ y -intercept is _____

5) $f(x) = (2x + 1)(3x + 4)$

 x -intercepts are _____ y -intercept is _____

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

 x -intercepts are _____ y -intercept is _____

9) $f(x) = 4x^2 + 8x$

 x -intercepts are **$(0, 0)$ and $(-2, 0)$** y -intercept is **$(0, 0)$**

4) $f(x) = 2x^2 + 6x + 4$

 x -intercepts are **$(-1, 0)$ and $(-2, 0)$** y -intercept is **$(0, 4)$** x -intercepts are **$(4, 0)$** y -intercept is **$(0, -16)$** x -intercepts are **$(8, 0)$ and $(-8, 0)$** y -intercept is **$(0, -64)$**

10) $f(x) = (2x + 3)^2 - 81$

 x -intercepts are **$(-6, 0)$ and $(3, 0)$** y -intercept is **$(0, -72)$**

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