

Quadratic Function - Intercepts

Sheet 2

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

1) $f(x) = (3x - 5)^2 - 64$

 x -intercepts are _____ y -intercept is _____

2) $f(x) = -x^2 - 10x + 11$

 x -intercepts are _____ y -intercept is _____

3) $f(x) = -(x + 6)(x + 3)$

 x -intercepts are _____ y -intercept is _____

4) $f(x) = 6x^2 + 9x$

5) $f(x) = -(x - 1)^2 + 1$

 x -intercepts are _____ y -intercept is _____

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

 x -intercept is _____ y -intercept is _____

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

 x -intercepts are _____ y -intercept is _____

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

 x -intercepts are _____ y -intercept is _____**PREVIEW**Gain complete access to the largest
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Quadratic Function - Intercepts

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

1) $f(x) = (3x - 5)^2 - 64$

x -intercepts are $(\frac{13}{3}, 0)$ and $(-1, 0)$

y -intercept is $(0, -39)$

2) $f(x) = -x^2 - 10x + 11$

x -intercepts are $(-11, 0)$ and $(1, 0)$

y -intercept is $(0, 11)$

3) $f(x) = -(x + 6)(x + 3)$

x -intercepts are _____

y -intercept is _____

5) $f(x) = -(x - 1)^2 + 1$

x -intercepts are _____

y -intercept is _____

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

x -intercept is _____

y -intercept is $(0, 12)$

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

x -intercepts are $(-6, 0)$ and $(-8, 0)$

y -intercept is $(0, 288)$

4) $f(x) = 6x^2 + 9x$

$(-\frac{3}{2}, 0)$ and $(0, 0)$

$(0, 0)$

+ 3)

$(-\frac{3}{5}, 0)$ and $(-1, 0)$

$(0, 15)$

2

$(2, 0)$ and $(4, 0)$

y -intercept is $(0, -16)$

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

x -intercepts are $(-1, 0)$ and $(1, 0)$

y -intercept is $(0, -3)$

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