

## 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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