

## Worksheet 9/5/2025

Solve for all real values of  $x$  that satisfy the following equation.

1)  $(x - 2)(x + 3) = 0$

2)  $(x - 2)^2 + (x + 3)^2 = 0$

3)  $x^2 + 4x + 3 = 0$  (use both completing the square method and quadratic formula)

4)  $x^2 - 4x + 4 = 0$  (use both completing the square method and quadratic formula)

5)  $x^2 + 2x + 3 = 0$  (use both completing the square method and quadratic formula)

6)  $\frac{x-2}{3} + \frac{x}{4} = \frac{1}{2}$

$$7) \frac{x-1}{2} + \frac{2}{x} = 2$$

$$8) \sqrt{x+5} = x+1$$