

Key Concepts: The Quadratic Formula

Example 1

Use the quadratic formula to solve each equation.

$$8 - x^2 = 6x$$

The solutions to $ax^2 + bx + c = 0$ can be found using the quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

$$2x^2 + \frac{x}{3} = 4$$

Example 2

State the x -intercepts on each parabola $y = f(x)$ after first solving the equation $f(x) = 0$

$$y = \frac{x^2}{2} - 3x - \frac{3}{4}$$

$$y = x^2 + 2x + 6$$