## Quadratic Formula

Before substituting values for a, b, and c, rearrange your equation into the form  $ax^2+bx+c=0$ .

$$\begin{bmatrix} \mathbf{a} \\ \mathbf{x}^2 + \begin{bmatrix} \mathbf{b} \\ \mathbf{x} + \end{bmatrix} \mathbf{c} = \mathbf{0}$$

$$x = -\begin{bmatrix} b \end{bmatrix} \pm \sqrt{\begin{bmatrix} b \end{bmatrix}^2 - 4 \begin{bmatrix} a \end{bmatrix} \begin{bmatrix} c \end{bmatrix}}$$