## Quadratic Formula

The quadratic formula can be used to solve quadratics that are in the form $\mathrm{ax}^{2}+\mathrm{bx}+\mathrm{c}=0$.

$$
x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}
$$

Rearrange your equation into $a x^{2}+b x+c=0$ before substituting in any values for $a, b$, and c .

Pay special attention to your signs!

$$
\begin{gathered}
\square x^{2}+\sqrt{b} x+\sqrt{c}=0 \\
x=\frac{-\boxed{b} \pm \sqrt{\square^{2}-4 \sqrt{a}}}{2 \sqrt{a}}
\end{gathered}
$$



