

CLO: Students will develop a stronger understanding of the quadratic formula.

Warm - Up

Write down everything you know about the quadratic formula and what it is used for .

Solve the following using the formula.

$$x^2 + 4x - 10 = 0$$

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THE QUADRATIC FORMULA

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

1. MAKE SURE YOUR QUADRATIC EQUATION IS ALWAYS EQUAL TO ZERO
2. IDENTIFY YOUR **a** VALUE, **b** VALUE, AND **c** VALUE, IF ONE OF THESE VALUES IS MISSING YOU WILL USE A ZERO FOR ITS VALUE.
3. PLUG YOUR VALUES IN, DO NOT DROP YOUR SIGNS, SIMPLIFY AND SOLVE!!! |

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

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$$x = \frac{-() \pm \sqrt{()^2 - 4()()}}{2()}$$

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