

- The quadratic equation $x^2 + 7x + 10 = 0$ is in the form of $ax^2 + bx + c = 0$. What are the values of a , b , and c ?
- Some steps for solving the equation by completing the square have been started here. In the third line, what might be a good reason for multiplying each side of the equation by 4?

$$x^2 + 7x + 10 = 0$$

Original equation

$$x^2 + 7x = -10$$

Subtract 10 from each side

$$4x^2 + 4(7x) = 4(-10)$$

Multiply each side by 4

$$(2x)^2 + 2(7)2x + \underline{\quad}^2 = \underline{\quad}^2 - 4(10)$$

Rewrite $4x^2$ as $(2x)^2$
and $4(7x)$ as $2(7)2x$

$$(2x + \underline{\quad})^2 = \underline{\quad}^2 - 4(10)$$

$$2x + \underline{\quad} = \pm \sqrt{\underline{\quad}^2 - 4(10)}$$

$$2x = \underline{\quad} \pm \sqrt{\underline{\quad}^2 - 4(10)}$$

$$x =$$

- Complete the unfinished steps, and explain what happens in each step in the second half of the solution.

- Substitute the values of a , b , and c into the quadratic formula, $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$,

but do not evaluate any of the expressions. Explain how this expression is related to solving $x^2 + 7x + 10 = 0$ by completing the square.

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Clifford Lane



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