

● Solving Quadratics by Completing the Square

Step 1: Write the equation in the form $x^2 + bx = c$

Step 2: Find the new "c" by $\rightarrow \left(\frac{b}{2}\right)^2$ Remember $\div 2$ is the same as $\times \frac{1}{2}$

Step 3: Create a perfect square trinomial by adding the new "c" to both sides of the equation.

Step 4 Factor the perfect square trinomial

Step 5 Take the square root of both sides

Step 6 Create two equations and solve for x.