

The Square Root Property

If u is an algebraic expression and d is a nonzero number, then $u^2 = d$ has exactly two solutions:

If $u^2 = d$, then $u = \sqrt{d}$ or $u = -\sqrt{d}$. Equivalently, if $u^2 = d$, then $u = \pm\sqrt{d}$.

How to solve a quadratic equation using the square root property

- 1) Isolate the expression containing the square term.
- 2) Use the Square Root Property.
- 3) Isolate the variable, if necessary.
- 4) Check your solutions.

Example 2: Solve each equation by the square root property.