

Algebra /

Solving a quadratic equation using the square root property: Exact...

Solving a quadratic equation using the square root property: Exact answers, advance

Worked Examples:

The image shows two handwritten examples of solving quadratic equations using the square root property. The left example solves $(u+9)^2 - 9 = 0$ for u , and the right example solves $x^2 - 9 = 0$ for x . Both examples show the steps from isolating the squared term to taking the square root and solving for the variable.

Left Example:

$$(u+9)^2 - 9 = 0$$

$$(u+9)^2 = 9$$

$$u+9 = \pm 3$$

$$u = -9 \pm 3$$

$$u = -9+3, -9-3$$

$$u = -6, -12$$

Right Example:

$$x^2 - 9 = 0$$

$$x^2 = 9$$

$$x = \pm 3$$

$$3^2 = 9$$

$$(-3)^2 = 9$$

Handwritten note between examples: Square root inside an equation, put $\pm$

#QuadraticEquationsAndFunctions
 #EquationsAndInequalities

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