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Section 6.7: Solving equations involving radical expressions

Squaring property:

If both sides of an equation are squared, the solutions of the original equation are also solutions of the resulting equation.

Examples1) Solve for x :

$$\sqrt{x+1} = 5$$

Square both sides:

Solve the resulting equation:

Check in the original equation: $\sqrt{\underbrace{\quad} + 1} = 5$

Answer:

Important to remember:

2) Solve for x :

$$\sqrt{x-1} = x-3$$

Square both sides:

Solve the resulting equation:

Check **both** in the original equation:

Answer:

Important to remember: