

Objective 4 - Solving Radical Equations (Quadratic)

Solve radical equations that lead to quadratic equations.

[Link to section in online textbook.](#)

First, watch [this video](#) to see how solving radical equations is different from solving linear and quadratic equations. **The major difference is in the restricted domains of radical functions!** This objective will focus on radical equations that lead to quadratic equations. That means we can have 0, 1, or 2 solutions (*based on whether the potential solutions are in the domains of the radical functions*).

Question 1 Solve the following equation.

$$\sqrt{??} - \sqrt{??} = 0$$

Smallest solution: $x =$

Largest solution: $x =$

If there is only one Real solution, type "NA" as the largest solution. If there are no Real solutions, type "NA" for both.

Question 2 Solve the following equation.

$$\sqrt{??} - \sqrt{??} = 0$$

Smallest solution: $x =$

Largest solution: $x =$

If there is only one Real solution, type "NA" as the largest solution. If there are no Real solutions, type "NA" for both.

Question 3 Solve the following equation.

Learning outcomes:
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