

5 8 radical equations and inequalities

answers

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How to Solve Radical Expressions and Equations**

Solving Radical Inequalities

1. **Isolate the radical on one side:** Move all non-radical terms to the other side to isolate the radical.
2. **Square or cube both sides:** Square or cube both sides of the inequality to remove the radical. However, you must consider whether the squaring or cubing will change the inequality sign (e.g., $<$ becomes $>$).
3. **Solve the resulting inequality:** Solve the inequality as usual, considering the changed sign if necessary.

Solving Radical Rational Equations

1. **Clear the fraction:** Multiply both sides by the denominator of the radical rational expression to get rid of the fraction.
2. **Solve the resulting radical equation:** Follow the steps for solving radical equations (see below).

Solving Radical Equations in Word Problems

1. **Read and understand the problem:** Identify the variables and what they represent.
2. **Translate the problem into an equation:** Use the given information to create an equation that represents the problem.

3. **Solve the radical equation:** Follow the steps for solving radical equations (see below).
4. **Check the solution:** Plug the solution back into the original problem to verify that it makes sense.

Solving Radical Equations

Steps to Find the Solution:

1. **Isolate the radical:** Move the radical to one side of the equation.
2. **Square or cube both sides:** Square or cube both sides of the equation to remove the radical.
3. **Solve the resulting equation:** Solve the equation as usual, considering any changes to the inequality sign.
4. **Substitute the solution back into the original equation:** Check to make sure the solution satisfies the original equation.

Simplifying Radical Equations

Steps to Simplify:

1. **Factor out any perfect squares:** Look for any terms under the radical that can be factored as a perfect square.
2. **Simplify the radical:** Take the square root of any perfect squares under the radical.
3. **Combine like terms:** Combine any terms with the same radical.

Simplifying Radicals

5 Rules for Simplifying Radicals:

1. **Remove perfect square factors from under the radical.**
2. **Factor any remaining factors under the radical.**
3. **Simplify the radical by taking the square root of any perfect square factors.**
4. **Combine like radicals.**
5. **Rationalize the denominator if necessary.**

Writing Radical Formulas and Functions

Radical Formula:

$$\sqrt{a} = b$$

where a is the radicand and b is the square root of a .

Radical Function:

$$f(x) = \sqrt{g(x)}$$

where x is the input and $g(x)$ is the output.

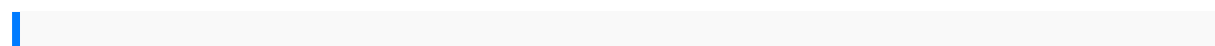
Inequalities

5 Steps to Solving Inequalities:

1. Isolate the variable on one side.
2. Determine the inequality sign.
3. Solve the inequality.
4. Graph the solution.
5. Check the solution.

5 Steps to Solving Rational Inequalities:

1. Multiply both sides by the least common multiple of the denominators.
2. Simplify the resulting inequality.
3. Solve for the variable.
4. Determine the solution set.
5. **Check the solution.



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