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Rational equations and inequalities - Ximera

Often, when solving equations involving rational expressions, it helps to eliminate fractions by multiplying both sides of the equation by the denominators of each term involved. In the context of this problem, we can first multiply both sides of the equation by $x+2$ to eliminate the denominator of the first term.

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To solve an inequality involving rational functions, we set our numerator and denominator to 0 and solve them separately. This will give us numbers that divide our function into intervals.

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Solving Rational Inequalities. The key approach in solving rational inequalities relies on finding the critical values of the rational expression which divide the number line into distinct open intervals. The critical values are simply the zeros of both the numerator and the denominator. You must remember that the zeros of the denominator make the rational expression undefined, so they must be immediately disregarded or excluded as a possible solution.

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The solution set of the inequality is given by the union of all intervals where rational expression on the left side of the given inequality is negative. Hence the solution set for the above inequality, in interval notation, is given by: $(-\infty, -3) \cup (-1, 3)$

Solve Rational Inequalities - Examples With Solutions

When you multiply both sides of an equation by a negative number you have to swap the inequality. So this greater than sign will become a less than sign because we're assuming that the x plus 2 is negative. These cancel out. 0 times anything is 0. We get that x minus 1 is less than 0. Solving for x , adding 1 to both sides, x is less than 1.

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4.4 Solving Rational Equations and Inequalities Notes Sometimes you can solve a problem using a proportion - an equation involving two rational expressions set equal to each other. Essential Understanding To solve an equation containing rational expressions, first multiply each side by the least common denominator of the rational expressions.

4.4 Solving Rational Equations Notes.pdf - 4.4 Solving ...

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To solve a rational inequality, you first find the zeroes (from the numerator) and the undefined points (from the denominator). You use these zeroes and undefined points to divide the number line into intervals. Then you find the sign of the rational on each interval.

[Solving Rational Inequalities - Purplemath](#)

Here are the steps required for Solving Rational Inequalities: Step 1: Write the inequality in the correct form. One side must be zero and the other side can have only one fraction, so simplify the fractions if there is more than one fraction. Step 2: Find the key or critical values. To find the key/critical values, set the numerator and ...

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A rational equation is any equation that involves at least one rational expression. Like normal algebraic equations, rational equations are solved by performing the same operations to both sides of the equation until the variable is isolated on one side of the equals sign.

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