

# Solving Rational Inequalities

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## Solving Rational Inequalities

### 135 NOTES ON RATIONAL INEQUALITIES - MCCC

To Solve Rational Inequalities: 1 Write the inequality as an equation 2 Solve the equation 3 Determine all values that make the denominator zero 4 Draw a number line, and mark all the solutions and critical values from steps 2 and 3 5 Select a test point in each interval between the marks on the number line, and determine if they satisfy the original inequality 6 If a test point

### Solving Rational Inequalities - CEMC's Open Courseware

Solve the simple rational inequality Graphical Solution Using the graphs and keeping in mind the asymptote,  $x = 2$ , and the point of intersection,  $(4, 3)$ , we can determine the intervals in which  $f(x) < g(x)$ . This gives the solution  $\{x < 2 \text{ or } x > 4, x \in \mathbb{R}\}$  -3 Examples Example 1 Solve the simple rational inequality Graphical Solution 3 Let  $f(x) =$

### J. Garvin|Solving Rational Inequalities

Solving Rational Inequalities Using Cases Example Solve  $3x^2 > 4$  using cases Since  $x^2 \geq 0$ , there are two cases to consider Case 1:  $x^2 > 0$ , or  $x > 2$   $3x^2 > 4$   $3 > 4(x^2)$   $3 > 4x + 8$   $5 > 4x$   $5/4 < x$  J Garvin|Solving Rational Inequalities Slide 3/12 MHF4U: Advanced Functions Solving Rational Inequalities Part 1: Simple Inequalities J Garvin Slide 1/12 rational functions Rational

### 03 Solving Rational Equations & Inequalities.notebook

03 Solving Rational Equations & Inequalities.notebook 2 March 13, 2014 Steps for Solving Rational Equations Steps for Solving using the LCM

Method 1 Find the LCD of all denominators (both sides) 2 Multiply all terms by the LCD (both sides) and cancel ALL denom's 3 Solve for the variable using Reverse Order of Operations 4 Check to make sure

### For Rational Inequalities - Mrs. Samson

Unit 03, Lesson 55 SOLVING RATIONAL INEQUALITIES notebook October 18, 2018 For Rational Inequalities: General Steps: Note any restrictions on either side of the inequality Put all terms on the left, leaving zero on the right Simplify the rational to a single fraction (this may require getting a common denominator) Determine all the roots of the numerator and denominator (factored form) Using

### Solving Polynomial and Rational Inequalities 2 11 28 0 Two ...

Example 4 Solving Rational Inequalities Rational inequalities can also be solved using a sign analysis procedure With rational inequalities, however, there is an additional area of consideration - values of  $x$  that make the rational expression undefined

### Rational Inequalities Date Period - Kuta

11) Write a rational inequality with the solution:  $(, ) \cup (, )$  ©l d2G001j6w cKluptian [SRoFfWtUwaaQrOeF aLdLdCZ^ B rAglolx `r\_iCgXhctIsH yrgeqsge\_rXvPeQdtW y aMXaCdEe` RwliLt]hr ^IXnifgiynTiOtFeM gPHrXeAcIaElxcdu`lNu`sR

### Lesson 2 Solving Rational Equations And Inequalities ...

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### Rational Equations; Equations and Inequalities; AII

Rational Equations Reporting Category Equations and Inequalities Topic Solving equations containing rational algebraic expressions Primary SOL AII.4c The student will solve, algebraically and graphically, equations containing rational algebraic expressions Graphing calculators will be used for solving and for confirming the algebraic solutions

### Solving inequalities - mathcentre.ac.uk

Solving inequalities mc-TY-inequalities-2009-1 Inequalities are mathematical expressions involving the symbols  $>$ ,  $<$ ,  $\geq$  and  $\leq$  To 'solve' an inequality means to find a range, or ranges, of values that an unknown  $x$  can take and still satisfy the inequality In this unit inequalities are solved by using algebra and by using graphs In order to master the techniques explained here it is

### Rational Inequalities - chilimath.com

Rational Inequalities Version 2 Name: \_\_\_\_ Date: \_\_\_\_ Score: \_\_\_\_ 2 2 1) 0 3 xx x 2 2 2 15 2) 0 xx7 ! 2 2 6 3) 0 34 xx xx d 2 2 4) 0 x xx t Direction: Solve each rational inequality Express the answer in interval notation Show all your work in the space provided

### Chapter 1/3 - Rational Inequalities and Rates of Change

Steps for solving rational inequalities algebraically: 1) Use inverse operations to move all terms to one side of the inequality 2) Combine the expressions on the using a common denominator 3) Factor the polynomial 4) Find the interval(s) where the function is positive or negative by making a factor table b)

### Part 1: Rational Expressions Rational Expression

Part 3: Solve Rational Inequalities REMEMBER: Solving inequalities is the same as solving equations However, when both sides of an inequality are multiplied or divided by a negative number, the inequality sign must be reversed Example 3: Solve each inequality algebraically a)  $\# +6\#3 * \# +,9\# /$

<0 To make a factor table: • Use ' -intercepts and vertical asymptotes to divide in to intervals

### Q.5 Polynomial and Rational Inequalities

Solving Polynomial or Rational Inequalities 1 Write the inequality so that one of its sides is zero and the other side is expressed as the product or quotient of prime polynomials 2 Determine the critical numbers, which are the roots of all the prime polynomials appearing in the inequality 3 Divide the number line into intervals formed by the set of critical numbers 4 Create a table

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### Solving Inequalities in One Variable - mcckc.edu

Inequalities in One Variable (Linear, Polynomial, & Rational) Solving a Linear Inequality: (ie  $\geq$  ) Solving Inequalities: Solve a linear inequality just like a linear equation , by performing operations to both sides of the inequality in order to isolate the variable The only difference is that when dividing or multiplying both sides of the inequality by a negative number, the direction

### J. Garvin|Solving Rational Inequalities

Solving Rational Inequalities Example Solve  $2x^2 + 2x - 3 < x^2 + 3x - 4$   $2x^2 + 2x - 3 < x^2 + 3x - 4 < 0$   $2(x + 3)(x - 1) < x(x + 4)(x - 1) < 0$   $2(x + 4) < x(x + 3)(x + 3)(x + 4)(x - 1) < 0$   $2x$  rational functions  $x + 8$   $(x + 3)(x + 4)(x - 1) < 0$  J Garvin|Solving Rational Inequalities Slide 7/12 rational functions Solving Rational Inequalities There are vertical asymptotes at  $x = 4$ ,  $x = 3$  and  $x = 1$  Next, solve  $2x^2$

### S 2012 1314 ABSOLUTE VALUE ; QUADRATIC AND RATIONAL ...

ABSOLUTE VALUE ; QUADRATIC AND RATIONAL INEQUALITIES MULTIPLE CHOICE Choose the one alternative that best completes the statement or answers the question Solve the quadratic inequality Write the solution set in interval notation 1)  $(x - 4)(x + 9) > 0$