

Free reading Lesson 8 solve problems with rational numbers 7 Full PDF

1 2 rational exponents 1 3 radicals 1 4 polynomials 1 5 factoring polynomials 1 6 rational expressions 1 7 complex numbers 2 solving equations and inequalities 2 1 solutions and solution sets 2 2 linear equations 2 3 applications of linear equations 2 4 equations with more than one variable 2 5 quadratic equations part i 2 6 this topic covers simplifying rational expressions multiplying dividing adding subtracting rational expressions rational equations graphing rational functions including horizontal vertical asymptotes modeling with rational functions rational inequalities about this unit divide one polynomial by another and what do you get a rational function we ll analyze the family of rational functions and we ll see some examples of how they can be useful in modeling contexts practice solving rational equations that have one or more extraneous solutions rational equations are equations that contain fractions with polynomials in the numerator and denominator you can check your answers by watching the video on extraneous solutions example 1 solve the rational equation below and make sure you check your answers for extraneous values would it be nice if the denominators are not there well we can t simply vanish them without any valid algebraic step 9 7 solve rational inequalities page id learning objectives solve rational inequalities solve an inequality with rational functions a rational equation is an equation containing at least one rational expression

rational expressions typically contain a variable in the denominator for this reason we will take care to ensure that the denominator is not 0 by making note of restrictions and checking our solutions to divide rational expressions multiply by the reciprocal of the divisor the restrictions to the domain of a product consist of the restrictions to the domain of each factor the restrictions to the domain of a quotient consist of the restrictions to the domain of each rational expression as well as the restrictions on the reciprocal of the in order to solve a rational expression one has to do the following steps step 1 multiply all the terms by the least common denominator to eliminate the denominators step 2 simplify the equation obtained in step 1 step 3 solve the simplified equation for the variable solving rational equations notes examples and practice with solutions topics include cross multiplying word problems factoring inequalities extraneous answers and more mathplane com lesson 14 summary the following diagram shows how to solve problems using the four operations with rational numbers lesson 14 1 which one doesn't belong equations which equation doesn't belong 1 2 x 50 60t 30 x 90 100 0 01 0 001x see video for whole lesson lesson 14 2 draining and filling a tank also known as the rational zero theorem the rational root theorem is a powerful mathematical tool used to find all possible rational roots of a polynomial equation of the order 3 and above the rational root theorem says that if there are rational roots they will be one of the following interpret negative number addition and subtraction expressions get 3 of 4 questions to level up adding subtracting negative fractions get 5 of 7 questions to level up absolute value to find distance get 5 of 7 questions to level up adding subtracting rational numbers get 3 of 4 questions to level up c1 based on clear thought and reason there must be some rational ~~explained~~ ~~engineering~~ ~~mathematics~~ ~~alan~~ ~~jeffrey~~

happened a rational act course of action a rational argument decision he was too upset to be rational fewer examples in that state of mind you can't make a rational decision i'm sure there's a perfectly rational explanation for it work problems a nice application of rational functions involves the amount of work a person or team of persons can do in a certain amount of time we can handle these applications involving work in a manner similar to the method we used to solve distance speed and time problems here is the guiding principle adverb think about the problem rationally she stayed calm and acted rationally sensibly rational meaning 1 based on facts or reason and not on emotions or feelings 2 having the ability to reason or think about things clearly sal solves a word problem about the combined deck staining rates of anya and bill by creating a rational equation that models the situation created by sal khan and monterey institute for technology and education c1 based on clear thought and reason there must be some rational explanation for what happened a rational act course of action a rational argument decision he was too upset to be rational fewer examples in that state of mind you can't make a rational decision i'm sure there's a perfectly rational explanation for it 1 a having reason or understanding b relating to based on or agreeable to reason reasonable a rational explanation rational behavior 2 involving only multiplication division addition and subtraction and only a finite number of times 3 relating to consisting of or being one or more rational numbers

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polynomials 1 6 rational expressions 1 7 complex numbers 2 solving
equations and inequalities 2 1 solutions and solution sets 2 2 linear
equations 2 3 applications of linear equations 2 4 equations with more
than one variable 2 5 quadratic equations part i 2 6

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this topic covers simplifying rational expressions multiplying dividing
adding subtracting rational expressions rational equations graphing
rational functions including horizontal vertical asymptotes modeling
with rational functions rational inequalities

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about this unit divide one polynomial by another and what do you get
a rational function we ll analyze the family of rational functions and
we ll see some examples of how they can be useful in modeling

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practice solving rational equations that have one or more extraneous solutions rational equations are equations that contain fractions with polynomials in the numerator and denominator you can check your answers by watching the video on extraneous solutions

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example 1 solve the rational equation below and make sure you check your answers for extraneous values would it be nice if the denominators are not there well we can't simply vanish them without any valid algebraic step

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9 7 solve rational inequalities page id learning objectives solve rational inequalities solve an inequality with rational functions

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a rational equation is an equation containing at least one rational expression rational expressions typically contain a variable in the denominator for this reason we will take care to ensure that the denominator is not 0 by making note of restrictions and checking our solutions

7 2 multiplying and dividing rational expressions

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to divide rational expressions multiply by the reciprocal of the divisor the restrictions to the domain of a product consist of the restrictions to the domain of each factor the restrictions to the domain of a quotient consist of the restrictions to the domain of each rational expression as well as the restrictions on the reciprocal of the

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in order to solve a rational expression one has to do the following steps

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step 1 multiply all the terms by the least common denominator to
eliminate the denominators step 2 simplify the equation obtained in
step 1 step 3 solve the simplified equation for the variable

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lesson 14 summary the following diagram shows how to solve
problems using the four operations with rational numbers lesson 14 1
which one doesn't belong equations which equation doesn't belong 1 2
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also known as the rational zero theorem the rational root theorem
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powerful mathematical tool used to find all possible rational roots of a polynomial equation of the order 3 and above the rational root theorem says that if there are rational roots they will be one of the following

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c1 based on clear thought and reason there must be some rational explanation for what happened a rational act course of action a rational argument decision he was too upset to be rational fewer examples in that state of mind you can't make a rational decision i'm sure there's a perfectly rational explanation for it

7 8 applications of rational functions

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work problems a nice application of rational functions involves the amount of work a person or team of persons can do in a certain amount of time we can handle these applications involving work in a manner similar to the method we used to solve distance speed and time problems here is the guiding principle

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