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simplify a rational expression, and how it's done! Learn what it means ...Intro to simplifying rational expressions (article) | Khan ...The 8's cancel out and we get this in lowest terms as $1/3$. The same exact idea applies to rational expressions. These are rational numbers. Rational expressions are essentially the same thing, but instead of the numerator being an actual number and the denominator be an actual number, they're expressions involving variables.

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$$\frac{x^2 + 4x + 4}{x^2 - 4} = \frac{(x+2)(x+2)}{(x+2)(x-2)}$$

We can see that, based on the factored denominator, our answer has to restrict the x -values so that $x \neq -2$ and $x \neq 2$. Step 2. Rational Expression. How to simplify rational expressions.

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Rational Expressions Calculator - Symbolab In this lesson, we will look at simplifying rational expressions. A rational expression has been simplified or reduced to lowest terms if all common factors from the numerator and denominator have been canceled. We first need to factor the polynomials Cancel any common factors from the top and bottom of the rational expression.

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final rational expression listed above will never be zero in the denominator so again we don't need to have any restrictions. Algebra - Rational Expressions - Lamar University Let us simplify a rational expression with two variables $\frac{x^2 - xy - 6y^2}{x - 3y}$ to have more clarity. Step 1: By factorizing the numerator $(x^2 - xy - 6y^2)$, we get $(x - 3y)(x + 2y)$. Simplifying Rational Expressions - Cuemath Simplifying Rational Expressions. The quotient of two polynomial expressions is called a rational expression. We can apply the properties of fractions to rational expressions, such as simplifying the expressions by canceling common factors from the numerator and the denominator.

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7.3 Simplify Complex Rational Expressions - Intermediate ...

5 Simplify the following radical expression. RATIONALE To simplify this expression, we can use the Product Property of Radicals to separate the into two radicals. The cube root of can be written as the cube root of 64 times the cube root of . can write each radical expression using a fractional exponent in order to simplify. The in radical determines the denominator of the fractional exponent. Images about Simplifying Rational Expressions Worksheet Algebra 2: Notation Worksheet With Answers, Algebra 2. com provides vital advice on simplifying rational expressions worksheets, matrices and quiz and other math subjects. about

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7.3 Simplify Complex Rational Expressions - Intermediate ...

Step 1. Factor the numerator and denominator. Step 1 Answer. $\frac{x^2 + 4x + 4}{x^2 - 4} = \frac{(x+2)(x+2)}{(x+2)(x-2)}$. We can see that, based on the factored denominator, our answer has to restrict the $x \neq -2$ and $x \neq 2$. Step 2.

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Simplifying Rational Expressions. The quotient of two polynomial expressions is called a rational expression. We can apply the properties of fractions to rational expressions, such as simplifying the expressions by canceling common factors from the numerator and the denominator.

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In this lesson, we will look at simplifying rational expressions. A rational expression has been simplified or reduced to lowest terms if all common factors from the numerator and denominator have been canceled. We first need to factor the polynomials. Cancel any common factors from the top and bottom of the rational expression.

3.1 Simplify Rational Expressions - Algebra 2 Common Core

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REVIEW OF ALGEBRA 2 SIMPLIFYING RATIONAL EXPRESSIONS ANSWERS

- I definitely agree that 'The Scarlet Letter' wasn't the easiest read of my life. However, now that I've been able to thoroughly digest Hawthorne's language and message, the beauty of this great American work shines through clearly in my mind. I'll admit that I did not come to the book by myself - it was assigned to me over the summer - but that hasn't stopped me from appreciating Hawthorne's command of the English language, his sensitivity and astute view of humanity, and his extensive use of allusions and images to carry his story beyond Puritan times and into all time. Hawthorne's writing style, while dense and very literary,

isn't impenetrable; and once you break through the shell of our own modern prejudices, it's easy to see what a wonderful and important novel this is.

- "The Scarlet Letter" gains its stature as a great work of art because Hawthorne has selected a historical-social issue, and going beyond the historical and social context, has explored and dramatized the issue in terms of its fundamental social, moral, philosophical and psychological meaning and implications - weaving an intricate pattern in which all the themes are inextricably intertwined and proceed from each other. Further, this novel becomes exceptional because it deals with such complex phenomena in a rather short story and a rather simple plot. To the theme of : "The conflict between the individual and society - in context of the consequences of the transgression of a well-established moral norm of society, by the individual", Hawthorne has integrated the theme of man's struggle to attain equilibrium-a harmony-with his own self, with society and the supreme source of morality (i.e. God - here I'm speaking from Hawthorne's perspective). Finally, he has further integrated the fundamental (and I think THE most important) theme, which I'd put as: "Man's struggle to come to terms with, and glorify the truth." Concealing the truth, faking reality- Hawthorne has denounced all these and above all - the man who fakes the truth about his own character. Note how every event of the story dramatizes all the three themes simultaneously-the integration is impeccable. Guilt, revenge, love, hatred, rebellion, non-conformity, penitence, the nature of sin, the spiritual and psychological condition of the isolated individual - Hawthorne has

delved into the nature of all these aspects of human nature and the human soul, which makes reading this novel a psychological tour de force. I'd state the plot-theme of this novel as : "The story of four individuals-a priest guilty of adultery-who has concealed his deed from society, thereby earning false esteem and respect of his parishioners; the married woman who partook in his sin and who has been ostracized by the society; the husband of the adulteress, consumed with hate and anger-seeking revenge; and her daughter- a living embodiment of virtue, morality and duty violated - of how their relationships with each other and the society in which they live, help them seek true penitence, glorify the truth-and achieve a proper understanding of their errors, both in terms of their values and their actions."The greatest literary merit of this novel is its plot-structure, which is the most tightly constructed, superbly economized and concentrated plot structure - in fact THE BEST - I've come across - especially in terms of Aristotelian aesthetics, given in "The Poetics". Hawthorne hasn't included a single character, situation, event, scene or description which is not relevant to the meaning and the plot of the story. Not a single word can be overlooked. Every

sentence is condensed such that it can be elaborated into pages of explanation.(I am not including the chapter "The Custom House" which is very boring and can be conveniently ignored and which I myself did not complete - but according to many, it is also related to the meaning of the novel).Another merit is the terrific symbolism - the deep, dark and wild forest; the beautiful & brilliant rose bush outside the prison door, and a lot more, especially the character of Pearl who symbolizes non-conformity, independence and aggressive rebellion against society .One flaw of this novel is that it is TOO gloomy - which may repel some readers who'd look for some sparks of humor or wit.Also, Hawthorne himself says too much, often coming between the reader and the characters of the story.But I think these flaws are very unimportant in comparison to the merits of the novel.In conclusion I'd say that "The Scarlet Letter" is one of the greatest novels of the 19th century, in fact, one of the greatest of all times. In a story of less than 200 pages, it will give you moral lessons (which you may or may not accept or approve) and insights into human nature and human life which several books may not successfully deal with. Your library and your literary experience are incomplete if you haven't read this novel.