

Rational Expressions

A **rational expression** is the quotient of two polynomials. That is, a rational expression is written in the form $\frac{p}{q}$, where p and q are polynomials and $q \neq 0$.

$$\frac{x+2}{3x-5} \quad \frac{a^2-3a-8}{a+7} \quad \frac{6x^2-3xy+10y^2}{x+y}$$

To **evaluate** a rational expression, replace the variable with its assigned numerical value and perform the arithmetic.

Example: Evaluate $\frac{x+2}{3x-5}$ for $x = 4$.

$$\frac{x+2}{3x-5} = \frac{4+2}{3(4)-5} = \frac{6}{12-5} = \frac{6}{7}$$

Section 4 2 Rational Expressions And Functions

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Section 4 2 Rational Expressions And Functions:

A Level Mathematics for OCR A Student Book 2 (Year 2) Vesna Kadelburg, Ben Woolley, 2018-01-25 New 2017
Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR A Level Mathematics specification for first teaching from 2017 this print Student Book covers the content for the second year of A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study *EBOOK: College Algebra with Trigonometry* Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text **Algebra Teacher's Activities Kit** Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-19 Help your students succeed with classroom ready standards based activities The Algebra Teacher's Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it's crucial that students master the material and gain confidence in their abilities The Algebra Teacher's Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond [Comprehensive Math Review for Actuarial Exams](#), 2008-04 This review book from Digital Actuarial Resources DAR covers the fundamental math featured on the actuarial exams including calculus trigonometry and advanced algebra Some of the subtopics include double

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