

8-1 Study Guide and Intervention

Multiplying and Dividing Rational Expressions

Simplify Complex Fractions A complex fraction is a rational expression with a numerator and/or denominator that is also a rational expression. To simplify a complex fraction, first rewrite it as a division problem.

Example: Simplify $\frac{\frac{3n-1}{n}}{\frac{3n^2+8n-3}{n^4}}$

$$\begin{aligned}\frac{\frac{3n-1}{n}}{\frac{3n^2+8n-3}{n^4}} &= \frac{3n-1}{n} \div \frac{3n^2+8n-3}{n^4} \\ &= \frac{3n-1}{n} \cdot \frac{n^4}{3n^2+8n-3} \\ &= \frac{(3n-1)\cancel{n^3}}{n(3n-1)(n+3)} \\ &= \frac{n^3}{n+3}\end{aligned}$$

Express as a division problem.

Multiply by the reciprocal of the divisor.

Factor and eliminate.

Simplify.

Exercises

Simplify each expression.

1. $\frac{\frac{x^3y^2z}{-2x^2yz}}{\frac{-2x^2yz}{x^3y^2z}}$

2. $\frac{\frac{a^2bc^2}{x^2y^2}}{\frac{ab^2}{c^2x^2y}}$

3. $\frac{\frac{b^2-1}{2b+2}}{\frac{b+1}{3b^2-b-2}}$

4. $\frac{\frac{b^2-100}{b^2}}{\frac{3b^2-51b+10}{2b}}$

5. $\frac{\frac{x-9}{x^2+9x+9}}{\frac{x^2-2x-8}{3+x}}$

6. $\frac{\frac{a^2-16}{-6a^2}}{\frac{a^2+3a-4}{a^2+a-2}}$

7. $\frac{\frac{2x^2+9x+9}{x^2-3x-4}}{\frac{36x^2+192x+6}{5x^2+7x+2}}$

8. $\frac{\frac{b+2}{b^2-6b+8}}{\frac{b^2+b-2}{b^2-16}}$

9. $\frac{\frac{b^2-b-2}{b^2-3b-4}}{\frac{b+1}{b^2-2}}$

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Why Interactive Staff



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Table of Contents Study Guide And Intervention Dividing Rational Expressions

1. Understanding the eBook Study Guide And Intervention Dividing Rational Expressions
 - The Rise of Digital Reading Study Guide And Intervention Dividing Rational Expressions
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide And Intervention Dividing Rational Expressions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide And Intervention Dividing Rational Expressions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide And Intervention Dividing Rational Expressions
 - Personalized Recommendations
 - Study Guide And Intervention Dividing Rational Expressions User Reviews and Ratings
 - Study Guide And Intervention Dividing Rational Expressions and Bestseller Lists
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 - Study Guide And Intervention Dividing Rational Expressions Public Domain eBooks
 - Study Guide And Intervention Dividing Rational Expressions eBook Subscription Services
 - Study Guide And Intervention Dividing Rational Expressions Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Study Guide And Intervention Dividing Rational Expressions Compatibility with Devices
 - Study Guide And Intervention Dividing Rational Expressions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide And Intervention Dividing Rational Expressions
 - Highlighting and Note-Taking Study Guide And Intervention Dividing Rational Expressions
 - Interactive Elements Study Guide And Intervention Dividing Rational Expressions
8. Staying Engaged with Study Guide And Intervention Dividing Rational Expressions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide And Intervention Dividing Rational Expressions
9. Balancing eBooks and Physical Books Study Guide And Intervention Dividing Rational Expressions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide And Intervention Dividing Rational Expressions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Guide And Intervention Dividing Rational Expressions
 - Setting Reading Goals Study Guide And Intervention Dividing Rational Expressions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Guide And Intervention Dividing Rational Expressions
 - Fact-Checking eBook Content of Study Guide And Intervention Dividing Rational Expressions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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bop pressure test procedures when you pressure test the bop system you must conduct a low pressure test and a high pressure test for each bop component excluding test rams and non sealing shear rams you must begin each test by conducting the low pressure test then transition to the high pressure test

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there are two elements to the pre job well site pressure test 1 wireline valve wlv pressure function test the tests should be performed on the test stump prior to rigging up and involves testing the pressure integrity of the wlv and the individual closed ram assemblies and the ram assembly functionality under pressure

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7 31 body pressure test procedure 1 locate the test plug and test cap on to their appropriate ends 2 bleed off all air within the assembly 3 ensure all external surfaces are dry 4 pressure test to test pressure for 3 minutes 5 reduce pressure to zero and repeat test for 15 minutes minimum no leakage acceptable 7 32 bop manifold test

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