

Quiz & Worksheet - Adding & Subtracting Rational Expressions Practice Problems

1. Add the following rational expressions.

$$\frac{x^2 + 6x + 9}{x^2 - 16} + \frac{x + 2}{4 - x}$$

- $\frac{1}{x^2 - 16}$
- $\frac{1}{16 - x^2}$
- $\frac{-1}{x^2 + 16}$
- $\frac{x - 1}{x^2 + 16}$
- $\frac{x + 1}{x^2 + 16}$

2. Subtract the following rational expressions.

$$\frac{x - 5}{x^2 - 3x + 2} - \frac{x - 2}{x^2 + x - 6}$$

- $\frac{x - 17}{x^3 - 7x + 6}$
- $\frac{x + 17}{x^3 - 7x + 6}$
- $\frac{x - 17}{x^2 - 7x + 6}$
- $\frac{x + 17}{x^2 - 7x + 6}$
- $\frac{x - 17}{x + 6}$

3. Subtract the following rational expressions.

$$\frac{x - 4}{x^2 + 2x - 24} - \frac{x + 6}{x^2 + 7x + 6}$$

- $\frac{-5}{x^2 - 7x - 6}$
- $\frac{5}{x^2 + 7x + 6}$
- $\frac{5}{x^2 - 7x + 6}$
- $\frac{-5}{x^2 - 7x + 6}$
- $\frac{-5}{x^2 + 7x + 6}$

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Practice 8 4 Rational Expressions

Ensheng Dong



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Table of Contents Practice 8 4 Rational Expressions

1. Understanding the eBook Practice 8 4 Rational Expressions
 - The Rise of Digital Reading Practice 8 4 Rational Expressions
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 4 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 Practice 8 4 Rational Expressions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 4 Rational Expressions
 - Personalized Recommendations
 - Practice 8 4 Rational Expressions User Reviews and Ratings
 - Practice 8 4 Rational Expressions and Bestseller Lists

5. Accessing Practice 8 4 Rational Expressions Free and Paid eBooks
 - Practice 8 4 Rational Expressions Public Domain eBooks
 - Practice 8 4 Rational Expressions eBook Subscription Services
 - Practice 8 4 Rational Expressions Budget-Friendly Options
6. Navigating Practice 8 4 Rational Expressions eBook Formats
 - ePub, PDF, MOBI, and More
 - Practice 8 4 Rational Expressions Compatibility with Devices
 - Practice 8 4 Rational Expressions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice 8 4 Rational Expressions
 - Highlighting and Note-Taking Practice 8 4 Rational Expressions
 - Interactive Elements Practice 8 4 Rational Expressions
8. Staying Engaged with Practice 8 4 Rational Expressions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice 8 4 Rational Expressions
9. Balancing eBooks and Physical Books Practice 8 4 Rational Expressions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice 8 4 Rational Expressions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice 8 4 Rational Expressions
 - Setting Reading Goals Practice 8 4 Rational Expressions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice 8 4 Rational Expressions
 - Fact-Checking eBook Content of Practice 8 4 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
 - Interactive and Gamified eBooks

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