

CHAPTER 5

Rational Functions, Equations, and Inequalities

Getting Started, pp. 246–247

1. Examine the coefficient for each term. To factor each expression, you will need two factors of the coefficient of the third term whose sum is the coefficient of the second term. If the coefficient of the first term is not 1, then you will have to consider the factors of that coefficient too. If the expression doesn't factor easily you can use the quadratic formula.

a) $x^2 - 3x - 10$

$-5 \times 2 = -10; -5 + 2 = -3$

$(x - 5)(x + 2)$

b) $3x^2 + 12x - 15$

$3(x^2 + 4x - 5)$

$5 \times -1 = -5; 5 + -1 = 4$

$3(x + 5)(x - 1)$

c) $16x^2 - 49$

Notice that this is the difference of two squares.

This means that the factored form of the expression will be $(4x - 7)(4x + 7)$.

d) $9x^2 - 12x + 4$

Notice that the coefficients of the first and third terms are squares. Since the coefficient of the second term is negative, the factors of the coefficient of the third term will also probably be negative. The factored form of the expression is $(3x - 2)(3x - 2)$.

e) $3a^2 + a - 30$

This is a trinomial of the form $ax^2 + bx + c$ where $a \neq 0$, and it has no common factor. The expression can be factored using decomposition by finding two numbers whose sum is 1 and whose product is $(3)(-30) = -90$. The numbers are -9 and 10 . These numbers are used to decompose the middle term.

$3a^2 - 9a + 10a - 30$

$= 3a(a - 3) + 10(a - 3)$

$= (a - 3)(3a + 10)$

f) $6x^2 - 5xy - 21y^2$

This trinomial can again be factored by decomposition. Find two numbers whose sum

is -5 and whose product is $(6)(-21) = -126$. The numbers are -14 and 9 . These numbers are used to decompose the middle term.

$6x^2 - 14xy + 9xy - 21y^2$

$= 2x(3x - 7y) + 3y(3x - 7y)$

$= (2x + 3y)(3x - 7y)$

2. a) $\frac{12 - 8x}{4}$

$= \frac{4(3 - 2x)}{4}$

$= 3 - 2x$

b) $\frac{6m^2n^3}{18m^2n}$

$= \frac{6m^2n(n)^2}{6m^2n(3m)}$

$= \frac{n^2}{3m}, m \text{ and } n \neq 0$

c) $\frac{9x^3 - 12x^2 - 3x}{3x}$

$= \frac{3x(3x^2 - 4x - 1)}{3x}$

$= 3x^2 - 4x - 1$

$x \neq 0$

d) $\frac{25x - 10}{5(5x - 2)^2}$

$= \frac{5(5x - 2)}{5(5x - 2)(5x - 2)}$

$= \frac{1}{5x - 2}$

$x \neq \frac{2}{5}$

e) $\frac{x^2 + 3x - 18}{9 - x^2}$

$= \frac{(x - 3)(x + 6)}{(3 - x)(3 + x)}$

$= \frac{-(3 - x)(x + 6)}{(3 - x)(3 + x)}$

$= \frac{x + 6}{3 + x}, x \neq -3, 3$

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1. Understanding the eBook Nelson Grade 1physics Solutions
 - The Rise of Digital Reading Nelson Grade 1physics Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Grade 1physics Solutions
 - 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 Nelson Grade 1physics Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Grade 1physics Solutions
 - Personalized Recommendations
 - Nelson Grade 1physics Solutions User Reviews and Ratings
 - Nelson Grade 1physics Solutions and Bestseller Lists
5. Accessing Nelson Grade 1physics Solutions Free and Paid eBooks
 - Nelson Grade 1physics Solutions Public Domain eBooks
 - Nelson Grade 1physics Solutions eBook Subscription Services
 - Nelson Grade 1physics Solutions Budget-Friendly Options

6. Navigating Nelson Grade 1physics Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Nelson Grade 1physics Solutions Compatibility with Devices
 - Nelson Grade 1physics Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nelson Grade 1physics Solutions
 - Highlighting and Note-Taking Nelson Grade 1physics Solutions
 - Interactive Elements Nelson Grade 1physics Solutions
8. Staying Engaged with Nelson Grade 1physics Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Grade 1physics Solutions
9. Balancing eBooks and Physical Books Nelson Grade 1physics Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Grade 1physics Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nelson Grade 1physics Solutions
 - Setting Reading Goals Nelson Grade 1physics Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Grade 1physics Solutions
 - Fact-Checking eBook Content of Nelson Grade 1physics Solutions
 - 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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