

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

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

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

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

# Nelson Math Calculus Vectors Solutions Manual

**James K. Nelson**



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## **Table of Contents Nelson Math Calculus Vectors Solutions Manual**

1. Understanding the eBook Nelson Math Calculus Vectors Solutions Manual
  - The Rise of Digital Reading Nelson Math Calculus Vectors Solutions Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Math Calculus Vectors Solutions Manual
  - 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 a Nelson Math Calculus Vectors Solutions Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Math Calculus Vectors Solutions Manual
  - Personalized Recommendations
  - Nelson Math Calculus Vectors Solutions Manual User Reviews and Ratings

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