

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 Calculus Solutions

A. O. Gelfond



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Table of Contents Nelson Calculus Solutions

1. Understanding the eBook Nelson Calculus Solutions
 - The Rise of Digital Reading Nelson Calculus Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Calculus 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Calculus Solutions
 - Personalized Recommendations
 - eBook Platform User Reviews and Ratings
 - eBook Platform Bestseller Lists
5. Accessing Nelson Calculus Solutions Free and Paid eBooks

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