

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

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

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

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 Calculus And Vectors 12 Solutions Manual Free
 - The Rise of Digital Reading Nelson Calculus And Vectors 12 Solutions Manual Free
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Calculus And Vectors 12 Solutions Manual Free
 - 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 Calculus And Vectors 12 Solutions Manual Free
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Calculus And Vectors 12 Solutions Manual Free
 - Personalized Recommendations
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 - Nelson Calculus And Vectors 12 Solutions Manual Free and Bestseller Lists

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 - Interactive Elements Nelson Calculus And Vectors 12 Solutions Manual Free
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Calculus And Vectors 12 Solutions Manual Free
9. Balancing eBooks and Physical Books Nelson Calculus And Vectors 12 Solutions Manual Free
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Calculus And Vectors 12 Solutions Manual Free
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nelson Calculus And Vectors 12 Solutions Manual Free
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 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Calculus And Vectors 12 Solutions Manual Free
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 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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