

# 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  $3(x - 2)^2$ .

e)  $3x^2 + a = 30$

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.

$3x^2 + 9x + 10x - 30$   
 $= 3x(x + 3) + 10(x + 3)$   
 $= (x + 3)(3x + 10)$

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.

$$\begin{aligned} 6x^2 - 14xy + 9xy - 21y^2 \\ = 2x(3x - 7y) + 3y(3x - 7y) \\ = (2x + 3y)(3x - 7y) \end{aligned}$$

2. a)  $\frac{12 - 8x}{4}$   
 $= \frac{4(3 - 2x)}{4}$   
 $= 3 - 2x$

b)  $\frac{6x^2 + 3x^2}{18x^2 + 9x^2}$   
 $= \frac{6x^2 + 3x^2(x + 1)}{18x^2 + 3x^2(3x + 1)}$   
 $= \frac{3x^2}{3x^2}$ ,  $x \neq 0$  and  $x \neq -1$

c)  $\frac{9x^2 - 12x^2 - 3x}{3x}$   
 $= \frac{3x(3x^2 - 4x - 1)}{3x}$   
 $= 3x^2 - 4x - 1$

x  $\neq 0$   
 $3x^2 - 4x - 1 = 0$   
 $25x = 10$   
 $5(5x - 2)^2$

$$\begin{aligned} &= \frac{5(5x - 2)}{5(5x - 2)(5x + 2)} \\ &= \frac{1}{5x + 2} \\ &x \neq -\frac{2}{5} \end{aligned}$$

e)  $\frac{x^2 + 3x - 18}{9 - x^2}$   
 $= (x - 3)(x + 6)$   
 $= (3 - x)(3 + x)$   
 $= -(3 - x)(x + 6)$   
 $= (3 - x)(3 + x)$   
 $= -\frac{x + 6}{3 + x}$ ,  $x \neq -3, 3$

# Chapter 5 Nelson Solutions Manual

**D.E.C. Corbridge**

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**Complete Solutions Manual for McKeague's Basic Mathematics, 6th** McKeague, 2004-10      **Accounting, Ch 1-15**

Cassagio, Janet Cassagio, 1996      **Handbook of Modern Hospital Safety** William Charney, 2009-07-28 It is ironic that those whose job it is to save lives often find themselves injured in the course of performing their duties. In fact according to the Bureau of Labor Statistics healthcare workers have higher injury rates than agriculture workers miners and construction workers. The Handbook of Modern Hospital Safety Second Edition covers exposure paradigms and offers solutions and models of protection for these individuals presenting the latest science and intervention strategies that have proven successful in the scientific community. Extensively revised this second edition explores a host of hazardous conditions that are faced by healthcare workers in today's hospitals including infection and infectious diseases back injuries needlesticks workplace violence slip trip and fall injuries ergonomic issues electrocautery smoke toxic drugs ethylene oxide aldehydes pentamidine ribavirin. In this long awaited update to William Charney's seminal work experts from leading hospitals universities and health organizations explore these health risks and suggested preventive measures discuss recent research and new information on technology to protect workers cover new legislation and regulations and provide insight into the philosophy of creating a safe hospital culture

**Foundations and Methods of Stochastic Simulation** Barry L.

Nelson, Linda Pei, 2021-11-10 This graduate level textbook covers modelling programming and analysis of stochastic computer simulation experiments including the mathematical and statistical foundations of simulation and why it works. The book is rigorous and complete but concise and accessible providing all necessary background material. Object oriented programming of simulations is illustrated in Python while the majority of the book is programming language independent. In addition to covering the foundations of simulation and simulation programming for applications the text prepares readers to use simulation in their research. A solutions manual for end of chapter exercises is available for instructors

**Basic**

**Algebra** Larry Lewis, Vera Goetz Smyth, 1982

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Nelson, 2013-01-31 This graduate level text covers modeling programming and analysis of simulation experiments and provides a rigorous treatment of the foundations of simulation and why it works. It introduces object oriented programming for simulation covers both the probabilistic and statistical basis for simulation in a rigorous but accessible manner providing all necessary background material and provides a modern treatment of experiment design and analysis that goes beyond classical statistics. The book emphasizes essential foundations throughout rather than providing a compendium of algorithms and theorems and prepares the reader to use simulation in research as well as practice. The book is a rigorous but concise treatment emphasizing lasting principles but also providing specific training in modeling programming and analysis. In addition to teaching readers how to do simulation it also prepares them to use simulation in their research no other book does this. An online solutions manual for end of chapter exercises is also provided

**Mayo Clinic Neurology Board**

**Review: Clinical Neurology for Initial Certification and MOC** Kelly Flemming, Lyell Jones, 2015 This comprehensive board review guide will aid in the preparation for the neurology board certification and re certification exams. With extensive neuroimaging illustrations and neuropathology included this book eliminates the need for obtaining multiple resources to study for the neurology board examination with high yield information emphasized to highlight key facts. In addition to those people preparing to take or recertify for the neurology boards it will also be useful to medical students and residents rotating through neurology or for the generalist with an interest in reviewing neurology     *Mayo Clinic Neurology Board Review*  
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**Management** Debbie West, 2009-07-30 This conversational text offers inviting projects that fulfill requirements for an introductory course in records management. Its interactive exercises assess the student's understanding of the principles and concepts supporting each management system. Instruction for proficiency in manual subject geographic numeric micrographic and electronic filing systems. Authentic simulations of filing practices in contemporary business and industry

**Thermodynamic Loop Applications in Materials Systems** Donald L. Johnson, 1995     *The Meaning of the Moral Life*  
Warren Nelson Nevius, 1930     *Discrete Mathematics* John A. Dossey, 1997 The strong algorithmic emphasis of Discrete Mathematics is independent of a specific programming language allowing students to concentrate on foundational problem solving and analytical skills. Instructors get the topical breadth and organizational flexibility to tailor the course to the level and interests of their students. Algorithms are presented in English eliminating the need for knowledge of a particular programming language. Computational and algorithmic exercise sets follow each chapter section and supplementary exercises and computer projects are included in the end of chapter material. This Fifth Edition features a new Chapter 3 covering matrix codes, error correcting codes, congruence, Euclidean algorithm and Diophantine equations and the RSA algorithm. MARKET Intended for use in a one semester introductory course in discrete mathematics     Student Guide and

Review Manual John K. Harris,1999-07 *Instructor's Manual to Accompany Personnel Management in Action* Lane

Kelley,Nelson Lane Kelley,Arthur Whatly,1987 **Select Texas Statutes, Annotations and Forms and Notaries'**

**Manual** Nat P. Jackson,1907 **Phosphorus** D.E.C. Corbridge,2013-01-07 Over two decades have passed since the fifth edition of Phosphorus Chemistry Biochemistry and Technology Major advances in chemistry materials science electronics and medicine have expanded and clarified the role of phosphorus in both our everyday appliances and groundbreaking research Significantly expanded updated and reorganized this sixth edition organizes and explains vital phosphorus research and relevant information available in highly specialized reviews and references on select related topics An authoritative and comprehensive review of phosphorus chemistry and related technology Phosphorus Chemistry Biochemistry and Technology covers historical academic industrial agricultural military biological and medical aspects of phosphorous Furthermore it offers a starting point for more extended studies of the highly specialized branches of phosphorus chemistry Although this book deals with a small fraction of the 106 known phosphorus compounds it thoroughly covers the simpler derivatives and most key compounds of economic sociological and biological importance Extensively updated and expanded with tables figures equations structural formulae and references it is ideal for scientists in related fields seeking a rapid introduction to phosphorus chemistry Organizing Macro-analysis Seminars Philadelphia Macro-Analysis Collective,1975

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reflex arc from the stimulus to the response