

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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Developments in the Visualization and Processing of Tensor Fields David H. Laidlaw, Anna Vilanova, 2012-09-14
Bringing together key researchers in disciplines ranging from visualization and image processing to applications in structural mechanics fluid dynamics elastography and numerical mathematics the workshop that generated this edited volume was the third in the successful Dagstuhl series Its aim reflected in the quality and relevance of the papers presented was to foster collaboration and fresh lines of inquiry in the analysis and visualization of tensor fields which offer a concise model for numerous physical phenomena Despite their utility there remains a dearth of methods for studying all but the simplest ones a shortage the workshops aim to address Documenting the latest progress and open research questions in tensor field analysis the chapters reflect the excitement and inspiration generated by this latest Dagstuhl workshop held in July 2009 The topics they address range from applications of the analysis of tensor fields to purer research into their mathematical and analytical properties They show how cooperation and the sharing of ideas and data between those engaged in pure and applied research can open new vistas in the study of tensor fields **Uniform Trade List Annual** , 1977 **Vector and Tensor Analysis** Louis Brand, 2020-04-15 An outstanding introduction to tensor analysis for physics and engineering students this text admirably covers the expected topics in a careful step by step manner In addition to the standard vector analysis of Gibbs including dyadic or tensors of valence two the treatment also supplies an introduction to the algebra of motors The entire theory is illustrated by many significant applications Surface geometry and hydrodynamics are treated at length in separate chapters Nearly all of the important results are formulated as theorems in which the essential conditions are explicitly stated Each chapter concludes with a selection of problems that develop students technical skills and introduce new and important applications The material may be adapted for short courses in either vector analysis or tensor analysis *A History of Vector Analysis* Michael J. Crowe, 1994-01-01 Prize winning study traces the rise of the vector concept from the discovery of complex numbers through the systems of hypercomplex numbers to the final acceptance around 1910 of the modern system of vector analysis Student Solutions Manual [for] Vector Calculus Susan Jane Colley, 2006 *Subject Guide to Books in Print* , 1995 **Selected Papers on Noise and Stochastic Processes** Nelson Wax, 1954-01-01 These six classic papers on stochastic process were selected to meet the needs of professionals and advanced undergraduates and graduate students in physics applied mathematics and engineering Contents include Stochastic Problems in Physics and Astronomy by S Chandrasekhar from Reviews of Modern Physics Vol 15 No 1 On the Theory of Brownian Motion by G E Uhlenbeck and L S Ornstein from Physical Review Vol 36 No 3 On the Theory of the Brownian Motion II by Ming Chen Wang and G E Uhlenbeck

from Reviews of Modern Physics Vol 17 Nos 2 and 3 Mathematical Analysis of Random Noise by S O Rice from Bell System Technical Journal Vols 23 and 24 Random Walk and the Theory of Brownian Motion by Mark Kac from American Mathematical Monthly Vol 54 No 7 The Brownian Movement and Stochastic Equations by J L Doob from Annals of Mathematics Vol 43 No 2 *Proceedings of the Eighth Conference on Electronic Computation* James K. Nelson,1983

Vector Calculus Study Guide & Solutions Manual Karen Pao,Frederick Soon,2003-08-22 Includes solutions to selected exercises and study hints **Forthcoming Books** Rose Arny,2003 **The XFT Quadrature in Discrete Fourier Analysis** Rafael G. Campos,2019-05-24 This book has two main objectives the first of which is to extend the power of numerical Fourier analysis and to show by means of theoretical examples and numerous concrete applications that when computing discrete Fourier transforms of periodic and non periodic functions the usual kernel matrix of the Fourier transform the discrete Fourier transform DFT should be replaced by another kernel matrix the eXtended Fourier transform XFT since the XFT matrix appears as a convergent quadrature of a more general transform the fractional Fourier transform In turn the book s second goal is to present the XFT matrix as a finite dimensional transformation that links certain discrete operators in the same way that the corresponding continuous operators are related by the Fourier transform and to show that the XFT matrix accordingly generates sequences of matrix operators that represent continuum operators and which allow these operators to be studied from another perspective *Canadian Books in Print* ,2001 **Books in Print** ,1991

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