

# FACTORING POLYNOMIALS

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**Factoring by Grouping**

$$\begin{aligned}
 & (y^3 + 5y^2 - 4y - 20) \\
 & y^2(y + 5) - 4(y + 5) \\
 & (y + 5)(y^2 - 4) \\
 & \boxed{(y + 5)(y - 2)(y + 2)}
 \end{aligned}$$

$$\begin{aligned}
 & 3x^4 + 12x^3 - 3x^2 - 6x \\
 & x(3x^3 + 12x^2 - 3x - 6) \\
 & x(3x^2(x + 3) - 3(x + 3)) \\
 & \boxed{x(x + 3)(3x^2 - 3)}
 \end{aligned}$$

**Factoring Quadratic Polynomials**

$$\begin{aligned}
 & 3x^2 = 12 \\
 & (4x^2 - 9)(4x^2 + 9) \\
 & \boxed{(2x - 3)(2x + 3)(4x^2 + 9)}
 \end{aligned}$$

$$\begin{aligned}
 & 3x^3 + 12x^2 + 18x \\
 & 3x^2(x^2 + 4x + 6) \\
 & \boxed{3x^2(x^2 + 3)(x^2 + 2)}
 \end{aligned}$$

**The Factor Theorem**     A polynomial  $f(x)$  has a factor  $x - k$  if and only if  $f(k) = 0$ .

Ex: Determine if  $x + 5$  is a factor of  $f(x) = 3x^3 + 10x^2 - x^2 + 25$

$$\begin{array}{r|rrrrrr}
 -5 & 3 & 10 & -1 & 0 & 25 \\
 & & -15 & 0 & 5 & -25 \\
 \hline
 & 3 & -5 & -1 & 5 & 0
 \end{array}$$

yes,  $x + 5$  is a factor of  $f(x) = 3x^3 + 10x^2 - x^2 + 25$

Ex: Show that  $x + 3$  is a factor of  $f(x) = x^3 + 3x^2 - x - 3$

$$\begin{array}{r|rrrrrr}
 -3 & 1 & 3 & 0 & -1 & -3 \\
 & & -9 & -3 & 0 & 0 & 3 \\
 \hline
 & 1 & 0 & 0 & -1 & 0
 \end{array}$$

yes,  $x + 3$  is a factor of  $f(x) = x^3 + 3x^2 - x - 3$

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Factor higher-order polynomials & use the Factor Theorem



# Faceingmath Factoring Polynomials

**CO Houle**



## Facingmath Factoring Polynomials:

*Bowker's Complete Video Directory 2001* ,2001      *Complete Sourcebook on Children's Software* ,1999      Directory of Distance Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation      **Tech Prep** Daniel M. Hull,Julie Hull Grevelle,1998      **Scientific and Technical Aerospace Reports** ,1984      **Bowker's Complete Video Directory** ,2000      *Teaching Mathematics in Secondary and Middle School* James S. Cangelosi,1992      Alouette's Song, Second Edition ANDREW JONATHAN FINE,2015-02-14 Whoever saves a life saves a world ancient Jewish maxim Alouette s Song is a New Adult romantic action adventure featuring two couples one heroic and one support each having a college aged teen plus a teen accelerated into college or beyond Themes from government conspiracy thrillers inspirational fiction and coming of age are presented through a dramatic storytelling style infused with frequent humor and irony There are even a few small paranormal elements a sworn protector of humanity hiding behind someone else s eyes a 6000 year old guardian spirit keeping safe a treasure that if used selflessly could save a people and an inherited gift infused with generation after generation of sacred use from a Jewish village in Eastern Europe Meet Dotty and Rick Dotty is a professional violinist with a GED Rick is a college sophomore having graduated high school early to pursue interests that steer him away from an abusive home While not a typical love at first sight scenario they do get thrown together in a spectacular manner Dotty gets mugged in a subway and falls onto the tracks of a train due to arrive in a minute getting injured in the fall Rick is considering suicide by the very same train but the moment he decides to do so he hears Dotty s screams He places Dotty s need to live above his own need to die Their collision turns into a kiss that lights up the universe for both of them Martin and Margie have been friends from childhood Margie has autism but is brilliant enough to hide her condition at the price of extreme loneliness Martin is the only one who accepts her for exactly who and what she is Margie won t reveal her hopeless love for him because of this as she knows he s gay But Margie stumbles onto an answer for them both having to do with the power of Time Martin takes Margie s discovery and along with his engineering talent utilizes both to build a spacecraft Soon both couples are together and in way over their heads within the sea of stars only ingenuity compassion valor and prayer can get them safely home      *Applied mechanics reviews* ,1948      **Mathematical Reviews** ,2007      **Bowker's Directory of Videocassettes for Children 1999** R R

Bowker Publishing, Bowker, 1999-03      **Choice** ,2007      Current Index to Journals in Education ,1986      *The Video Source Book* David J. WEINER, 1990      **MAA Notes** ,1983      **CEP Software Directory** ,1997      **The Mathematica Journal** ,1990      **Current Index to Statistics, Applications, Methods and Theory** ,1976      Electrical & Electronics Abstracts ,1989      **McGraw-Hill Dictionary of Scientific and Technical Terms** Sybil P. Parker, 2003

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<https://staging.conocer.cide.edu/results/publication/index.jsp/far%20from%20hagondange%20and%20vaterland%20the%20country%20of%20our%20fathers.pdf>

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