

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 + 10x^3 - 2x^2 - 4x \\ & x(3x^3 + 10x^2 - 2x - 4) \\ & x(3x^2(x + 5) - 2(x + 5)) \\ & \boxed{x(x + 5)(3x^2 - 2)} \end{aligned} $
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Factoring Quadratic Polynomials

$ \begin{aligned} & 3x^3 - 4x^2 + 9x \\ & (x^2 - 4)(3x + 9) \\ & \boxed{(x - 2)(x + 5)(3x + 9)} \end{aligned} $	$ \begin{aligned} & 3x^3 + 10x^2 + 8x \\ & 3x^2(x + 5) + 4x(x + 5) \\ & \boxed{3x^2(x + 5)(x + 2)} \end{aligned} $
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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 $f(x) = 3x^3 + 10x^2 - x^2 + 25$

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

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 $f(x) = x^3 + 3x^2 - x - 3$

$$\begin{array}{r|rrrrrr}
 -3 & 1 & 3 & 0 & -1 & -3 \\
 & & 6 & 9 & 0 & 6 \\
 \hline
 & 1 & 0 & 0 & -1 & 0
 \end{array}$$

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



Facingmath Factoring Polynomials

M Lipman



Factoring Polynomials:

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