

# FACTORING POLYNOMIALS

**FACTORING POLYNOMIALS**

**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}  $
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**Factoring Quadratic Polynomials**

$  \begin{aligned}  & 3x^2 - 12x + 15 \\  & (3x^2 - 9x) + (4x^2 + 9) \\  & \boxed{(3x - 3)(2x + 3)(4x^2 + 9)}  \end{aligned}  $	$  \begin{aligned}  & 3x^3 + 12x^2 + 15x \\  & 3x^2(x^2 + 4x + 3) \\  & \boxed{3x^2(x + 3)(x + 1)}  \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  $f(x) = 3x^3 + 10x^2 - x^2 + 25$

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

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

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

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

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