

MENU

sample

Use the distributive property (x coefficient + exponents)

Monomial times a Polynomial -4y2 (5y4 - 3y2 + 2) = -20y 6 + 12y 4 - 8y2

Polynomial times a Polynomial (2x - 3) (4x2 + x - 6) = 8x3 - 10x2 - 15x + 18

Polynomial times Polynomials Binomials times Binomials FOIL
First Outer Inner Last

 $(3x - 5)(2x + 7) = 6x_2 + 11 x - 35$ 

Polynomial Products
(Multiplying Polynomials and Special Products)

$$(a + b) 2 = a2 + 2ab + b2$$

$$(a - b) = a_2 - 2ab + b_2$$

- 1st Square the first term
- 2nd Multiply two terms and Double
- 3rd Square the last term

$$(x + 6)2 = x2 + 12 x + 36$$

$$(7m - 2p)_2 = 49m_2 - 14mp + 4p_2$$

Square of a Binomial

Difference of Two Squares DOTS = Difference of Two Squares

$$(a + b) (a - b) = a2 - b2$$

Example: