Polynomial ÷ Monomial

Polynomial ÷ Binomial

(Using Long Division)

Polynomial ÷ Binomial

(Using Long Division with Remainders)

Polynomial ÷ Binomial

(Using Synthetic Division)

Example 1:

$(4x^3 + 8x^2 + 10x) \div 2x$

Example 2:

$(12y^4 - 16y^3 + 20y^2) \div 4y$

Example 3: $(x^2 + 2x - 3) \div (x - 1)$

Example 4: $(-2y^2 + 8y - 6) \div (y - 1)$

Example 5: $(2x^2 + 11x - 9) \div (2x - 3)$

Example 6: $(3y^2 + 17y + 13) \div (3y + 2)$

Example 7: $(x^3 + 2x^2 - 13x + 10) \div (x + 5)$

Example 8: $(y^4 - 6y^3 + 20y + 7) \div (y - 2)$

Dividing Polynomials

Polynomial ÷ Monomial

Polynomial ÷ Binomial

(Using Long Division)

Polynomial ÷ Binomial

(Using Long Division with Remainders)

Polynomial ÷ Binomial

(Using Synthetic Division)

Example 1:

$(4x^3 + 8x^2 + 10x) \div 2x$

$2x^2 + 6x + 5$

Example 2:

$(12y^4 - 16y^3 + 20y^2) \div 4y$

$3y^4 - 4y^2 + 5y$

Example 3: $(x^2 + 2x - 3) \div (x - 1)$

$x + 3$

Example 4: $(-2y^2 + 8y - 6) \div (y - 1)$

$-2y + 6$

Example 5: $(2x^2 + 11x - 9) \div (2x - 3)$

$x + 7 + \dfrac{12}{2x-3}$

Example 6: $(3y^2 + 17y + 13) \div (3y + 2)$

$y + 5 + \dfrac{3}{3y+2}$

Example 7: $(x^3 + 2x^2 - 13x + 10) \div (x + 5)$

$x^2 - 3x + 2$

Example 8: $(y^4 - 6y^3 + 20y + 7) \div (y - 2)$

$y^3 - 4y^2 - 8y + 4 + \dfrac{15}{x+2}$

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