

# 5-2 Study Guide and Intervention Dividing Polynomials

**Long Division:** An algebraic procedure for dividing polynomials (see Example 1).

An algebraic procedure for polynomial multiplication. Remember that only like terms can be added or subtracted.

**Example 1 (Long Division):**  $\frac{4x^3 + 3x^2 + 2x + 1}{x + 2}$

$$\begin{array}{r} 4x^2 - 5x + 9 \\ x + 2 \overline{) 4x^3 + 3x^2 + 2x + 1} \\ \underline{4x^3 + 8x^2} \phantom{+ 2x + 1} \\ -5x^2 + 2x + 1 \phantom{+ 1} \\ \underline{-5x^2 + 10x} \phantom{+ 1} \\ -8x + 1 \phantom{+ 1} \\ \underline{-8x + 16} \\ -15 \end{array}$$

**Example 2 (Synthetic Division as Multiplication):**  $x^3 + 2x^2 + 3x + 4$  by  $x + 2$

$$\begin{array}{r} 1x^3 + 2x^2 + 3x + 4 \\ \underline{2x^2 + 4x + 8} \\ 1x^3 + 0x^2 + 3x + 4 \\ \underline{1x^3 + 2x^2 + 4x + 8} \\ -2x^2 - x - 4 \\ \underline{-2x^2 - 4x - 8} \\ 3x + 4 \\ \underline{3x + 6} \\ -2 \end{array}$$

The quotient is  $x^2 + 0x + 1$ . The remainder is  $-2$ .

$$\text{Quotient: } \frac{x^2 + 0x + 1}{x + 2} = x^2 + 0x + 1 \quad \text{Remainder: } -2$$

**Reminders:**

**Example 3:**

$$\begin{array}{r} 3x^2 + 10x + 8 \\ x + 2 \overline{) 3x^3 + 10x^2 + 19x + 12} \\ \underline{3x^3 + 6x^2} \phantom{+ 19x + 12} \\ 4x^2 + 19x + 12 \phantom{+ 12} \\ \underline{4x^2 + 8x} \phantom{+ 12} \\ 11x + 12 \phantom{+ 12} \\ \underline{11x + 22} \\ -10 \end{array}$$

$$3x^2 + 10x + 8 = 3x + 4 + \frac{-10}{x + 2}$$

$$3x^2 + 10x + 8 = (3x + 4)(x + 2) - 10$$

Example 4

$$14x^3 + 35x^2 + 28x + 10 = 14x^2 + 7x + 2 + \frac{10}{x + 2}$$

$$14x^3 + 35x^2 + 28x + 10 = (14x^2 + 7x + 2)(x + 2) + 10$$

Example 5 (Long Division)

# Study Guide And Intervention Polynomials Answer Key

**J Rink**



**Study Guide And Intervention Polynomials Answer Key:**

**Resources in Education** ,1979      *The Education Index* ,1983

*Operations on Polynomials* Leon J. Ablon,1981

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