Preliminaries and Objectives

Multiplying Polynomials – The FOIL Method

University of Minnesota

University of Minnesota

Multiplying Polynomials - The FOIL Method

Preliminaries

- Algebraic Expressions Using Variables
- Distributive Law

Objectives

Example 2

Multiply Polynomials

University of Minnesota

Multiplying Polynomials - The FOIL Method

Example 1

$$(x+3)(x-2) = x^2 + -2x + 3x + -6$$

= $x^2 + x - 6$

 $(2-4x)(5x-1) = 10x-2-20x^2+4x$

$$= -20x^2 + 14x - 2$$

Example 3

$$(x^{2} + 4x - 3)(x^{2} + 2)$$

$$= x^{4} + 2x^{2} + 4x^{3} + 8x - 3x^{2} - 6$$

$$= x^{4} + 4x^{3} - x^{2} + 8x - 6$$

University of Minnesota Multiplying Polynomials – The FOIL Method