

## LESSON 32: Multiplying Polynomials

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**Homework**  
.....**Directions:** Find the products.

**1.**  $(x^2 - x + 1)(x^2 + x - 2)$

**2.**  $x(x - 2) + (x + 1)(x - 4)$

**3.**  $(p + 4)(p^2 - 3p - 1)$

**4.**  $(2m^2 + m - 5)(2m - 7)$

**5.**  $(-x^2 + 2x + 3)(x^2 + 2x - 4)$

**6.**  $(a + b)(a^2 + ab + b^2)$

**7.**  $(3x^2 + 2x - 1)(x + 2)$

**8.**  $(v + w)(w^2 + 2wv - v^2)$

**9.**  $-2x(x + 5) + 6(x^2 - x - 3)$

**10.**  $(-3x^2 + 2x + 5)(x^2 - 3x - 1)$