

# Multiplying Polynomials

Name: \_\_\_\_\_

1. Multiply the following.

**A.**  $(3)(4x^2)$

**B.**  $(-3x)(-4x^2)$

**C.**  $(-3x^4)(4x^2)$

2. Multiply the following.

**A.**  $(3)(4x^2 - 2x)$

**B.**  $(-3x)(4x^2 - 2x)$

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

3. Multiply the following.

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

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

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

4. Multiply the following (use the general “foil method”).

**A.**  $(x + 3)(x - 5)$

**B.**  $(x - 3)(x - 5)$

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

**D.**  $(2x + 3)(4x + 5)$