

9.2 Multiply Polynomials

Distribute!!!

Ex1. Simplify.

$$x(2x+3)$$

$$2x^2 + 3x$$

Answer: \_\_\_\_\_

Ex2. Simplify.

$$2x^3(x^3 + 3x^2 - 2x + 5)$$

$$2x^6 + 6x^5 - 4x^4 + 10x^3$$

Answer: \_\_\_\_\_

Ex3. Simplify.

$$(a-4)(3a+2)$$

$$3a^2 + 2a - 12a - 8$$

$$3a^2 - 10a - 8$$

Answer: \_\_\_\_\_

Ex4. Simplify.

$$(b^2 + 6b - 7)(3b - 4)$$

$$3b^3 - 4b^2 + 18b^2 - 24b - 21b + 28$$

$$3b^3 + 14b^2 - 45b + 28$$

Answer: \_\_\_\_\_

Ex5. Simplify.

$$(x^2 + 2x + 1)(x + 2)$$

$$x^3 + 2x^2 + 2x^2 + 4x + x + 2$$

$$x^3 + 4x^2 + 5x + 2$$

Answer: \_\_\_\_\_

Ex 6. Simplify.

$$(2a^2 + 5a - 1)(4a - 3)$$

$$8a^3 - 6a^2 + 20a^2 - 15a - 4a + 3$$

$$8a^3 + 14a^2 - 19a + 3$$

Answer: \_\_\_\_\_

Homework: