

Name: _____ Hour: _____ Date: _____

NOTES: Section 10.3 – Special Products of Polynomials

Goals: #1 - I can use special product patterns to multiply polynomials.



Homework: Section 10.3 Worksheet

Warm Up: Find the product.

1. $-3x^2(3x^2 - 4x + 5)$

2. $(y + 6)(4y - 3)$

Notes:

A _____ is the sum of two monomials.

Examples:

There are _____ types of binomials:

- _____ and _____ Pattern:

$$\left(\quad + \quad \right) \left(\quad - \quad \right)$$

- _____ of a _____ Pattern:

$$\left(\quad + \quad \right)^2$$

$$\left(\quad - \quad \right)^2$$

We have to be very careful when multiplying these, but we STILL _____!

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Example #1: Find the product.

1. $(5t - 2)(5t + 2)$

2. $(n - 3)(n + 3)$

Example #2: Find the product.

1. $(3n + 4)^2$

2. $(4x - 1)^2$

You practice: Find the product.

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

2. $(3a - 4)^2$

3. $(x + 1)^2$

4. $(3x + 2)(3x + 2)$