

Name: _____ Hour: _____ Date: _____

NOTES: Section 10.2 – Multiplying Polynomials

Goals: #1 - I can multiply polynomials.



Homework: Section 10.2 Worksheet

Warm Up: Add or subtract the following polynomials.

1. $(5x^2 - 4x - 3) + (-3x^2 + 5x + 7)$

2. $(7y^3 + 4y^2 - 5y + 3) - (8y^3 - 4y^2 - 2y + 2)$

Notes:

To _____ polynomials, simply _____!

Example #1: Find the product.

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

2. $-4x(2x - 5)$

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Notes:

How do we multiply two _____ together? Again, we _____!

Example #2: Find the product.

1. $(x + 2)(x - 3)$

2. $(2x + 3)(2x + 1)$

You practice: Find the product.

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

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

3. $(2x - 3)(3x - 1)$

4. $(x + 8)(x + 5)$

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Notes:

What about multiplying a _____ by a _____?

WE STILL _____!

Example #3: Find the product.

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

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

You practice: Find the product.

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

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