

Name: _____ Hour: _____ Date: _____

NOTES: Section 5.3 – Add, Subtract, and Multiply Polynomials

Goals: #1 - I can add and subtract polynomials.

#2 - I can multiply polynomials.

#3 - I can multiply special polynomials.

Homework: Lesson 5.3 Worksheet



Notes:

To _____ or _____ polynomials, simply combine _____.

Example #1: Find the sum or difference.

1. $(3y^3 - 7y - 2y^2) + (2y - 5 - 4y^2)$ 2. $(3x^3 + 2x^2 - x + 7) - (8x^3 - x^2 - 5x + 1)$

You practice: Find the sum or difference.

1. $(t^2 - 6t + 2) + (5t^2 - t - 8)$ 2. $(8d - 3 + 9d^3) - (d^3 - 13d^2 - 4)$

Notes:

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To _____ polynomials, simply _____.

Example #2: Find the product of the polynomials.

1. $(y - 2)(-2y^2 + 3y - 6)$

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

You practice: Find the product of the polynomials.

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

2. $7x^2(4x - 3)$

Notes:

There are _____ product patterns we can look for!

Sum and Difference

Square of a Binomial

Cube of a Binomial

Example #3: Find the product of the polynomials.

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1. $(3t + 4)(3t - 4)$

2. $(8x - 3)^2$

3. $(pq + 5)^3$

You practice: Find the product of the polynomials.

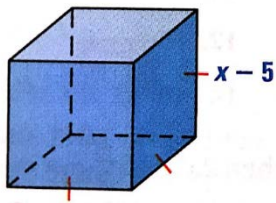
1. $(xy - 4)^3$

2. $(5y - 3)(5y + 3)$

3. $(4a + 7)^2$

Example #4: Write the figure's volume as a polynomial in standard form.

1. $V = s^3$



2. $V = \frac{1}{3}Bh$

