

**Day 3 – Adding & Subtracting Polynomials**

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

**Practice Assignment**

Date: \_\_\_\_\_ Block: \_\_\_\_\_

**1. Add the following polynomials. Make sure your final answer is in standard form.**

a.  $(5x^2 - 4x + 7) + (8x^2 - 3x - 9)$

b.  $(4x + 5x^2 + 8) + (-2x^2 + 8)$

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

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

**2. Subtract the following polynomials. Make sure your final answer is in standard form.**

a.  $(2x - 4) - (5x + 7)$

b.  $(3x^2 - 3x - 5) - (2x^2 + x - 6)$

c.  $(4x^2 + 3x - 10) - (-4x^2 + 2x + 8)$

d.  $(14x - 3x^2 + 2) - (3x + 4x^2 - 5)$

**3. Determine the missing values of m and n.**

a.  $(4x^2 + 2x - 8) + (mx^2 - nx + 4) = 7x^2 - 5x - 4$

b.  $(mx^2 - 8x + 3) - (6x^2 + nx - 4) = -2x^2 - 5x + 7$

**Day 3 – Classifying Polynomials**

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

**Practice Assignment**

Date: \_\_\_\_\_ Block: \_\_\_\_\_

1. Simplify and put each polynomial into standard form (if necessary). Then classify the polynomials by degree and number of terms.

	<b>Standard Form</b>	<b>Classification</b>
a. $4x^2 - 5x$	_____	_____
b. $x + 2$	_____	_____
c. $12$	_____	_____
d. $5x^2 - 5x + 1$	_____	_____
e. $2x + 3x^2 - 4x$	_____	_____
f. $4x^3 + 1 - 2x$	_____	_____
g. $x^2 - 2x + 9 - x^2$	_____	_____
h. $4x^3 - 2x + 2x^2 - 2x + 5$	_____	_____

2. Create a polynomial that meets the following requirements:

a. Quadratic Trinomial with coefficients of -2 and 3: \_\_\_\_\_

b. Quadratic Monomial with a negative coefficient: \_\_\_\_\_

c. Polynomial of degree 3 with three terms: \_\_\_\_\_

d. Polynomial with a constant of 7 and two terms: \_\_\_\_\_

e. Cubic binomial with leading coefficient of 4: \_\_\_\_\_