

**Day 2 – 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.  $(14x - 3x^2 + 2) - (3x + 4x^2 - 5)$

e.  $(x - 5 + 5x^2) - (5 + 8x^2 - x)$

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

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

h.  $(3n^2 + 13n^3 + 5n) - (7n + 4n^3)$

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

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

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