

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

Alg 1 Honors Homework 2.1-2.3

1. Find the sum of the polynomials.

a.  $(4m^2 - m + 2) + (-3m^2 + 10m + 7)$

b.  $(7k^2 + 2k - 6) + (3k^2 - 11k - 8)$

2. Find the difference of the polynomials.

a.  $(-n^2 + 2n) - (2n^3 - n^2 + n + 12)$

b.  $(9b^3 - 13b^2 + b) - (-13b^2 - 5b + 14)$

3. Find the product of the polynomials.

a.  $x(2x^2 - 3x + 9)$

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

c.  $(x+6)^2$

d.  $(x + 4)(x - 4)$