

Name: _____

Date: _____

CW # 3-4: Algebra 1 - Sections 10-1 to 10-4: Operations on Polynomials

50 points

1. *Write a mathematical expression that is not a polynomial and explain why it is not a polynomial.*

2. *Write an example of a monomial, a binomial, and a trinomial.*

3. *Add or subtract each. Write answers in standard form:*

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

b. $(8x^2 - 3x) - (5x - 5 - 8x^2)$

c. $(3x^3 + 3x^2 + 9) - (5x^3 - 7x^2 + 6x - 9)$

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4. *Multiply and simplify each. Write answers in standard form:*

a. $(3x - 7)(3x + 7)$

b. $-4x^2y(x^2 + 7xy - 6y^3)$

c. $(4x+3)^2$

d. $2x^3(9x^2 + 5y)$

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

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

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

h. $(4x - 3)(3x - 5)$

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

j. $-9(6m - 3) + 6(1 + 4m)$