

Unit 5: Polynomials Day 2

Math 9 Principles

5-2 I can identify, add, and subtract monomials, binomials, trinomials, and quadrinomials and determine their degree.

Simplify each expression:

1) $(9n + 7) - (4n - 5)$	2) $(c + 11d) - (-2c + 4d)$
3) $(12p^3 - p^2) - (-10p^3 + p^2)$	4) $(-5u + 4w) - (-5u - 4w)$
5) $(4r - 7) - (r^2 - 8)$	6) $(-y^2 + y) - (-2y^3 + y^2)$
7) $(-x^2y - 5xy - 16y) - (7x^2y + 15y)$	8) $(2a^2 - 5a - 4) - (3a^2 - a + 1)$
9) $4c - 20 - (-3c + 2) - 8c$	10) $(7 - a) - (-12a + 3) + (6 - 5a)$
11) $(x^4 - 5x^2) - (2x^3 - x^2) + (-x^4 - 2x^3 + x^2)$	
12) $(x + 7) - (7 - x)$	13) $(6x - 17) - (-7x - 2)$
14) $(-3x - 5y) - (8x + 2y)$	15) $(4a + b) - (6a - b)$

16) $(2y^4 + 18) - (-2y^4 + 17)$	17) $(4cd - 8c) - (-3cd - 8c)$
18) $(7x^2 + y^2) - (7x^2 - y^2)$	19) $(x^3 + 3x^2) - (-x^2 + x)$
20) $(-a^2b + a^2 - b) - (a^2b + 2a^2)$	21) $(3y^2 - 7y + 4) - (-2y^2 + 8y - 6)$
22) $(6xy - 4x^2 + 10y) - (-3x^2 - 10y + 6xy)$	
23) $-x - (5 - x) + 17 - (-x)$	24) $(4k - 7) - (k + 3) + (3k + 8)$
25) $-14 + 2y + (3 - 8y) - (1 + 6y)$	
26) $(2x^2 - 8) + (-x - 10) - (-x^2) - (4x^2 - 5x)$	
27) How many terms does the expression $2x^3 - 5x^2 + x - 1$ have?	
28) Give the degree of the polynomial $3r^8 - 2r^4 + 1$.	