

#1 ~ Sect. 9.1: Adding & Subtracting Polynomials

monomial:

binomial:

trinomial:

polynomial:

degree of a monomial:

Ex. 1: Find the degree of each monomial.

a) 18

b) $3xy^3$

c) $6c$

standard form of a polynomial:

<u>Polynomial</u>	<u>Degree</u>	<u>Name Using Degree</u>	<u># of Terms</u>	<u>Name Using # of Terms</u>
$7x + 4$				
$3x^2 + 2x + 1$				
$4x^3$				
$9x^4 + 11x$				
5				

Ex. 2: Write each polynomial in standard form. Then name each polynomial based on its degree and the number of its terms.

a) $-2 + 7x$

b) $3x^5 - 2 - 2x^5 + 7x$

Addition:

Ex. 3: Simplify.

a) $(6x^2 + 3x + 7) + (2x^2 - 6x - 4)$

b) $(2p^3 + 6p^2 + 10p) + (9p^3 + 11p^2 + 3p)$

Subtraction:

Ex. 4: Simplify.

$$(2x^3 + 4x^2 - 6) - (5x^3 + 2x - 2)$$