



Adding and Subtracting Polynomials

* What is a Monomial?

Monomial	Degree	Not a Monomial	Reason
10	0	$5 + x$	no sum or difference
$3x$	1	$\frac{2}{n}$	no variable in denominator
$\frac{1}{2}ab^2$	3	4^a	no variable exponent
$-1.8m^5$	5	x^{-1}	no negative exponent

Tell if each is a polynomial or monomial, degree, and leading coefficient

Ex1)

a) $3x$	c) a^2b^3
b) $\frac{1}{a}$	d) $3a^2b^2 + c^3$

Simplify each

Ex2) $2x^3 - 5x^2 + x + 2x^2 + x^3 - 1 =$

Ex3) $3x^2 + x - 6 + x^2 + 4x + 10 =$

$$\text{Ex4) } (4n^2 + 5) - 2n^2 + 2n - 4 =$$

$$\text{Ex5) } -3x^2 + 5x - (-3x^2 + x + 10) =$$