

Monomial	Degree	Not Monomial	Why?
10		$5 + x$	
$3x$		$\frac{2}{n}$	
$\frac{1}{2}ab^2$		4^n	
$-1.85m^5$		x^{-1}	

Monomial:

Degree of Monomial:

Polynomial:

Polynomial	$x + 3$	$2x^2 + 3x^5$	$4 + 5x^2 - 3x$	6
Degree	1	5	2	0
Leading Coefficient	1	3	5	6

Degree of Polynomial:

Leading Coefficient:

Classifications

Binomial:

Trinomial:

Expression	Polynomial?	Classify by terms/degree
$3x - 4$	<i>Yes</i>	<i>1st degree binomial</i>
$\frac{2}{x}$	<i>No; variables in denominator not allowed</i>	
$2x^2 + x - 5$		
$6n^4 - 8^n$		
$n^{-2} - 3$		
$7bc^3 + 4b^4c$		
9		

Adding Polynomials

$$(2x^3 - 5x^2 + x) + (2x^2 + x^3 - 1)$$

Sum of $3x^2 + x + 6$ and $x^2 + 4x + 10$

Subtracting Polynomials

$$(4n^2 + 5) - (-2n^2 + 2n - 4)$$

Difference of $4x^2 - 3x + 5$ and $3x^2 - 8x - 8$