Vocabulary

Degree: Highest exponent

Leading coefficent: the coeffficent with the highest exponent

ex: $6x^3 + 7x - 10x^5$

degree: 5

L.C: -10

SF: $-10x^5 + 6x^3 + 7x$

Standard Form: the exponents are written in descending order. (greatest to least)

Name	Degree	Example
Constant	0	4
Linear	1	$4x$
Quadratic	2	$4x^2 - 7$
Cubic	3	$4x^3 + 2x^2 - x$
higher than 3	4	
	4th degree	
	nth degree	

Types of Polynomials

term

1 Monomial 6 ; x ; $7y$; $-9x^3y^5$

2 Binomial $x-9$; $7x^2-5x$

3 Trinomial $9x^2-5x+2$

many Polynomial $-8x^3+6x^2-8x+1$

Non-Examples

8^x $\frac{4}{x}$ x^{-3}

ex $5x^3+x^2-7x+9$ (degree: 3)

leading coefficent

Cubic polynomial

coefficents: 5, 1, -7, 9

Ex $7xy^2$
D: 3
LC: 7
C: none

$5x^2+4x$
2
5
none

$-8x^3+2x^2-8x-5$

D: 3
LC: -8
C: -5

$6x-x^3+4$
$-x^3+6x+4$

D: 3
LC: -1
C: 4