Interpreting Language in Math Expressions

Example: $-3x^2 + 4x - 2$

Vocabulary	Definition	From Example
Algebraic Expression	A mathematical phrase that contains numbers, operations, and/or variables DOES NOT have an equal sign	See above example Use to create examples for each part of the expression
Variable	A symbol used to represent a quantity that can change	X ² ? X
Term	Part of an expression that is separated by "+" or "-"	-3x ² 4x -2
Like Terms	Terms with the same variable and raised to the same exponent	None
Coefficient	A number that is multiplied by a variable Located at the front of the variable	-3
Exponent	The number that indicates how many times the base is being multiplied by itself The little number at the top of the base number	X Exponent Expor
Base	The number in a power that is used as a factor The big number connected to the exponent	base
Constant	The term that DOES NOT contain a variable Stands Alone Usually placed at the end of an expression	-2
Degree	Highest Degree Exponent Should be listed first in the expression	X2

Classifying Polynomials

By Degree		By Number of Terms	
Degree	Name	# of Terms	Name
0	Constant	100	Mononomial
1	X: Linear	2	binomial
2	X2: Quadratic	3	trinomial
3	X3: cubic	4 or more	polynomial

Name each polynomial by degree and number of terms. Vanables 1) -10x variable Terms: 1 Mononomial coeff: -10 Exponent: 1 Degree: 1 Linear 3) 7 Terms: 1 mononomial Constant: 7 variables 5) -3n³(+n²(-10n)+9 Terms: -3n3,1n2, -10n', 9 (4) pdy Constant: 9, -10 Exponent: 93, 2, 1 Degree: 3 Waic Terms: -46 (1) monomial coeff: -4

Exponents: 1 Degree: 1 linear

 $2) -10r^{3} - 8r^{2}$ Terms: -10r 3 -8r2 (2) Binomial coeff: -10, -8 Exponents: 3, 2. Degree: 3 Cubic 4) $3\sqrt{2} - 80 + 2$ Terms: 3y2, - by, 2 (3) trinomial. coeff: 3, -8 Constant: 2 Exponents: 2, 1 Degree: 2 Quadratic Terms: 7,-9 (2) binonial Coeff:7,-9 Exponent: 2,1 Degree: 2 Quadratic 8) $-9 + 7n^3 - n^2$

STANDARD FORM: 7n3-12-9 Terms: 7n3, - ln2, -9 (3) trinomial coeff: 7,-1 constants: - 9 Exponents: 3,2 Degree: 3 Cubic