

A *polynomial* is one term or the sum of terms whose variables have whole-number exponents.



Just like there are many different types of chairs, there are many different types of polynomials.

Monomials...

Monomials are polynomials with ONE term.

14

X

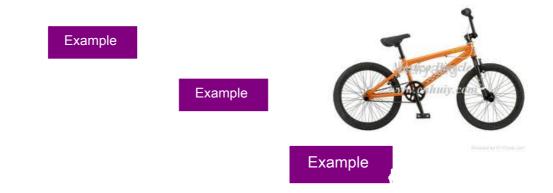
11y²



"Terms are numbers, variables, or the product of numbers and variables

Binomials...

Binomials are polynomials with TWO terms.



Terms are separated by "+" and "-" signs!

Trinomials...

Trinomials are polynomials with THREE terms.



Example

Example

Example

Monomial
6x
71
8b+2
10x-5w

Sort the following polynomials into the above categories:

Trinomial

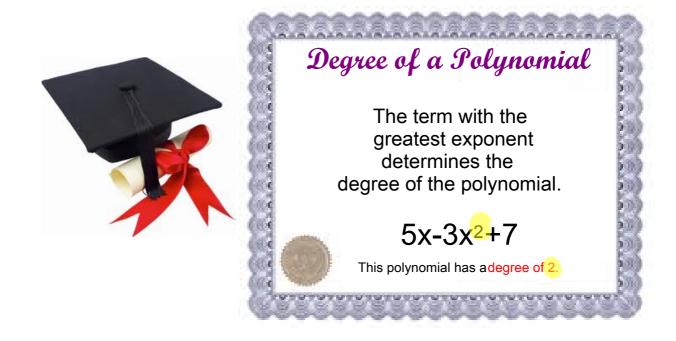
7y+9z-q 6x²-5x+8

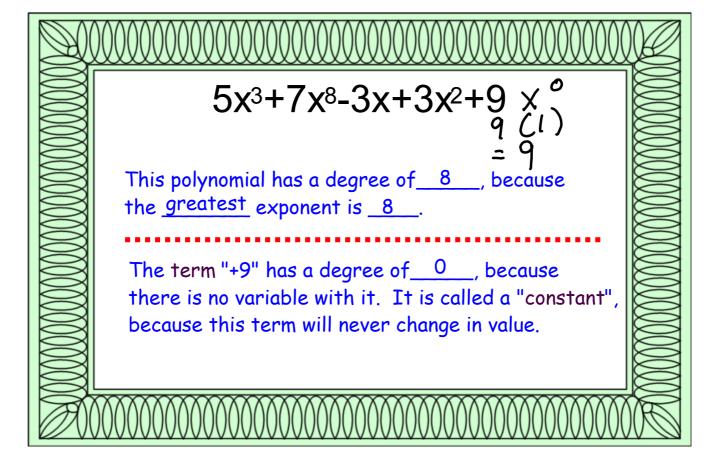


The coefficient of the variable... 15x ... is 15.

The coefficient is the number in front of the variable.



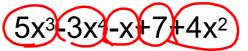




Polynomials are written in descending order.

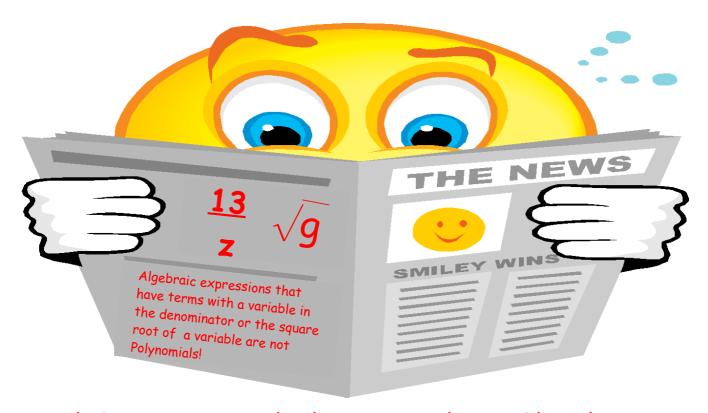
Each term is written from the highest degree

to the lowest.

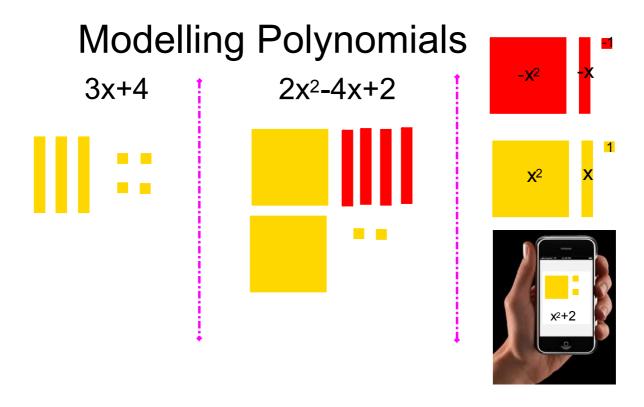


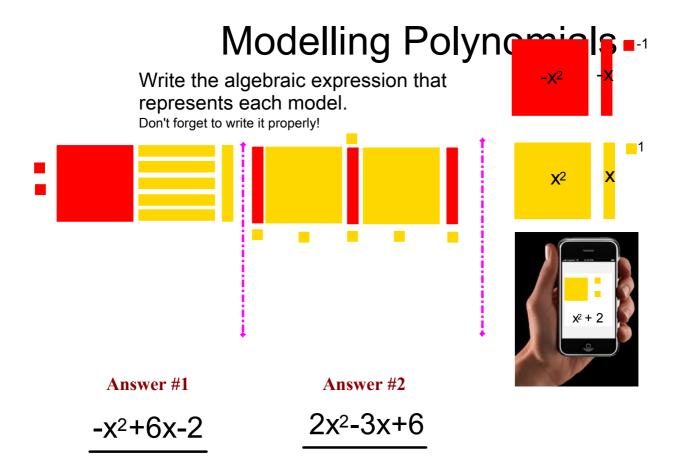
will be written as...

$$-3x^{4}+5x^{3}+4x^{2}-X+7$$



Algebraic expressions that have terms with a variable in the denominator or the square root of a variable are not Polynomials!







Check out pages 214 - 216

4-9, 13, 14, 15

