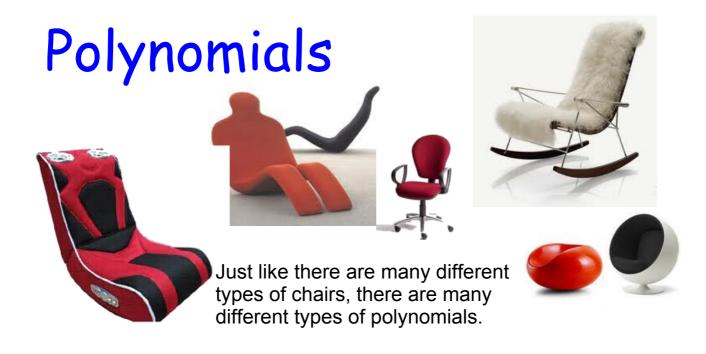
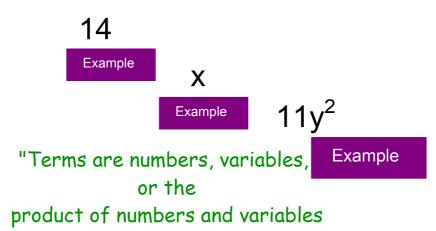


A **polynomial** is one term or the sum of terms whose variables have whole-number exponents.



Monomials...

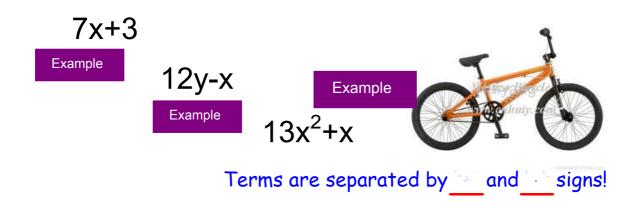
Monomials are polynomials with ONE term.



Jay Leno's monologue

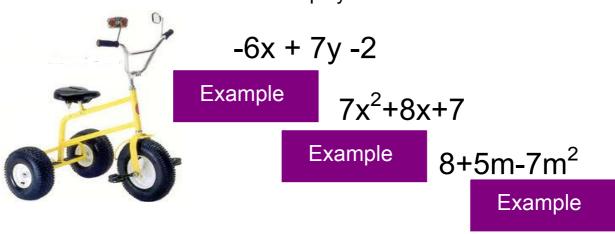
Binomials...

Binomials are polynomials with TWO terms.



Trinomials...

Trinomials are polynomials with THREE terms.



Monomial

6x

8b+2

71

Binomial

10x-5w

Trinomial

 $6x^2-5x+8$

7y+9z-q

Sort the following polynomials into the above categories:



The coefficient of the variable... 15x ... is 15. The coefficient is the number in front of the variable.



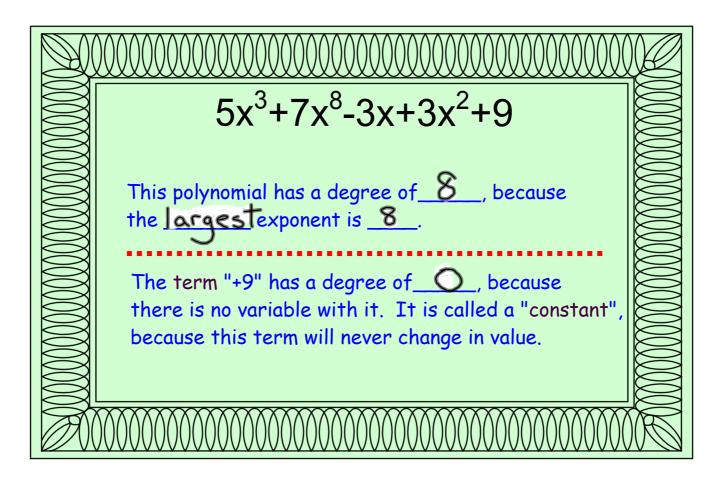


Degree of a Polynomial

The term with the greatest exponent determines the degree of the polynomial.

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

This polynomial has a degree of 2.



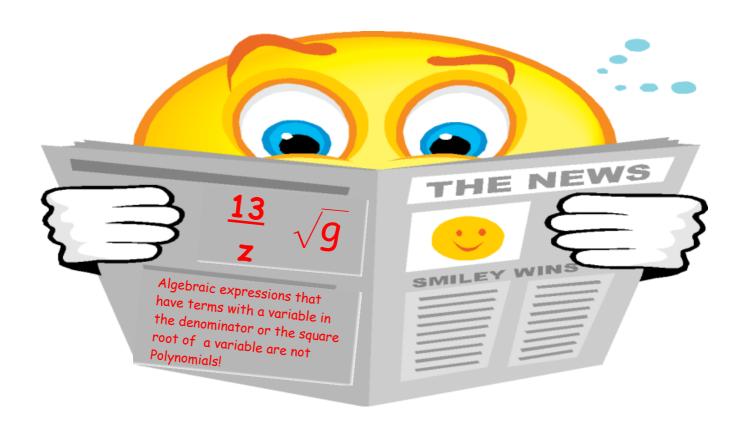
Polynomials are written in descending order.

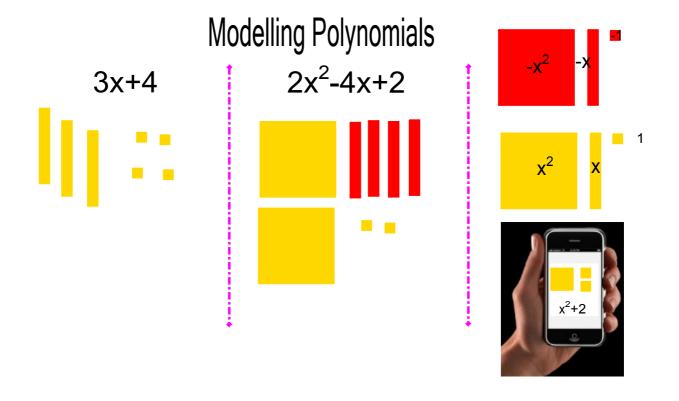
Each term is written from the highest degree to the lowest.

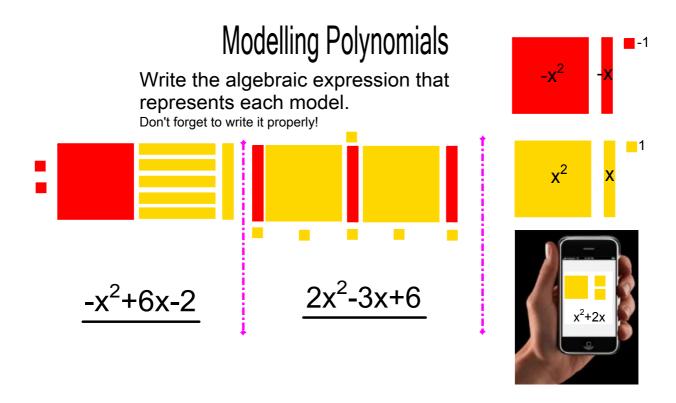
$$5x^3 - 3x^4 - x + 7 + 4x^2$$

will be written as...

$$-3x^4+5x^3+4x^2-x+7$$









Check out pages 214 - 216