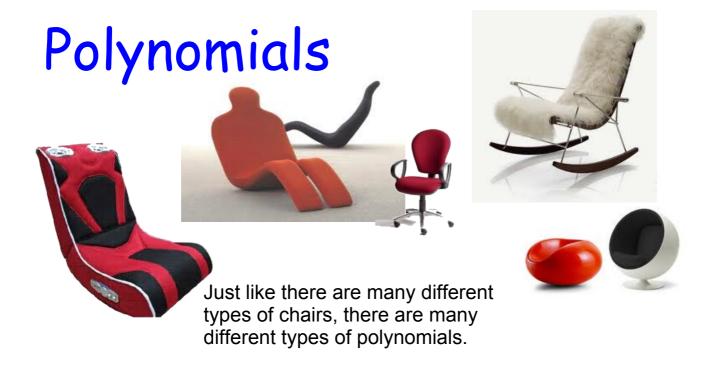
a)
$$6y + 3 y = 4$$
 $62 + 3 = 27$
b) $2x^2 - 1 x = -2$
 $2(-2) - 1$
 $2(+3) - 1 = 7$
a) $p + 8 p = 12$
b) $4w + 8 w^3$
 $12 + 8$
 20
c) $2r - 8 r = 4$
 $2(+3) - 7 = 2$
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 3



A **polynomial** is one term or the sum of terms who's variables have whole number exponents $5x^2 + 1$



Monomials...

Monomials are polynomials with ONE term.

14

X

 $11y^2$

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

 \rightarrow no addition or subtraction

Jay Leno's monologue



Binomials...

Binomials are polynomials with TWO terms.

$$7x + 3$$
 $12y - x$
 $13x^2 + x$

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

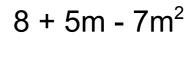
Trinomials...

Trinomials are polynomials with THREE terms.



$$-6x + 7y - 2$$

$$7x^2 + 8x + 7$$



Monomial

71

6x

Binomial

10x-5w

8b+2

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.

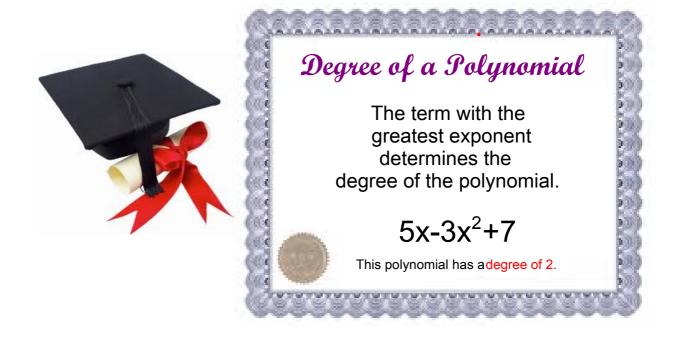


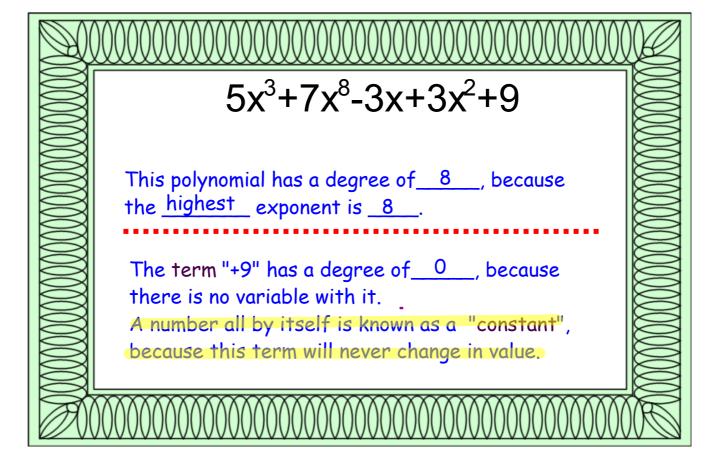
example:

$$5x^2 + 2y$$

coefficients:

coefficients:





$$2x^5 - 4x^6 + 3$$

 $2x^5 - 4x^6 + 3$ Coefficients: $2x^5 - 4x^6 + 3$

Variable:

Constant:

Degree:

Polynomials are written in descending order.

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

example:

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

will be written as...

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