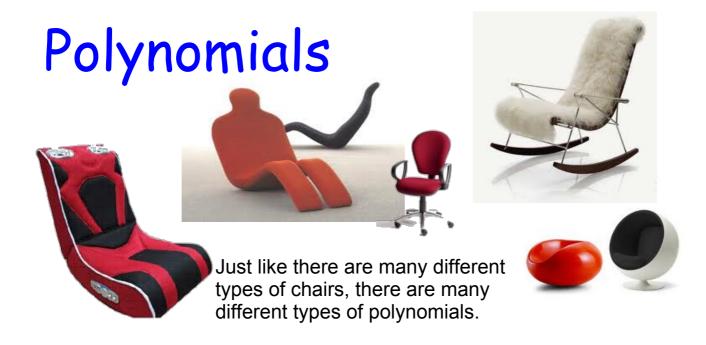


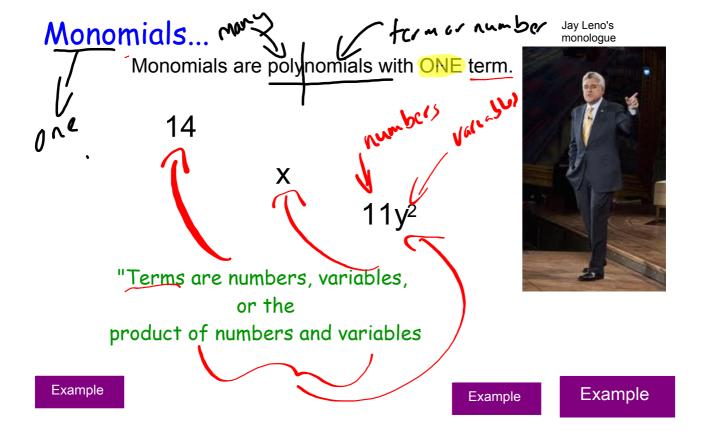






A polynomial is one term or the have whole-number exponents. In have whole-number exponents. sum of terms whose variables No document_

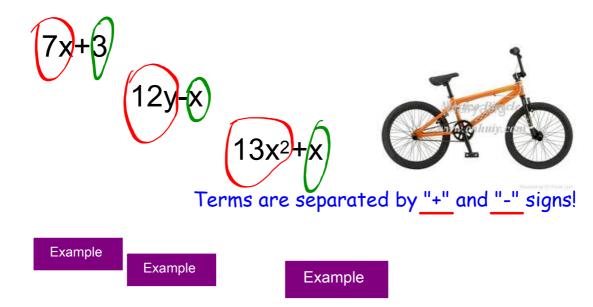




Binomials...

Red = First term
Green = Second term

Binomials are polynomials with TWO terms.



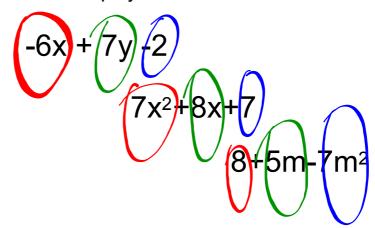


Gren = Second term

Blue = Third term

Trinomials are polynomials with THREE terms.





Example

Example

Example

Monomial

6x

71

Binomial

10x-5w

8b+2

Trinomial

6x²-5x+8 7y+9z-q

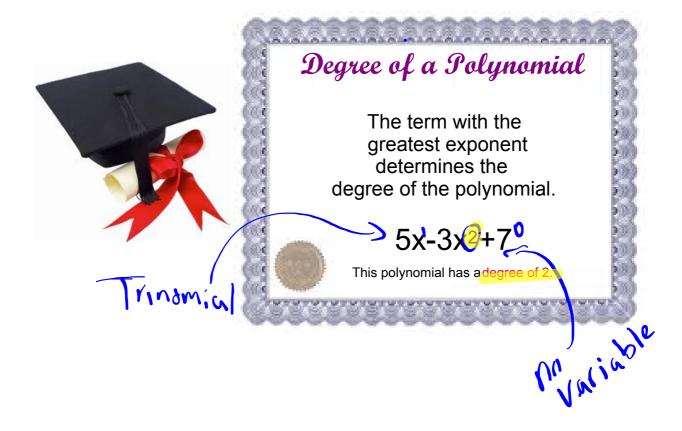


Sort the following polynomials into the above categories:

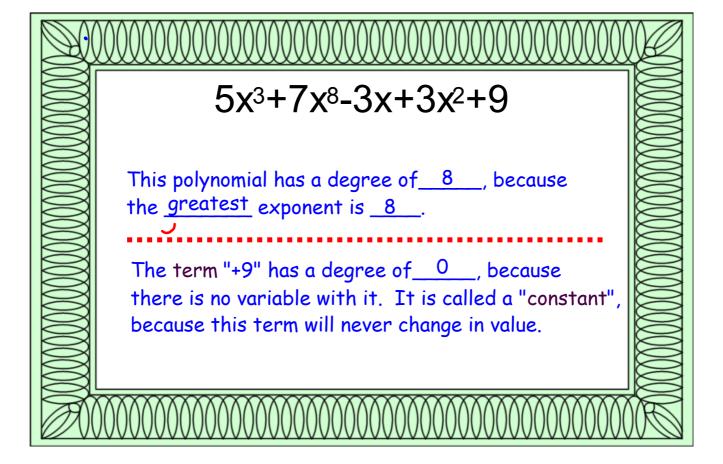
999w = 999 Welliam

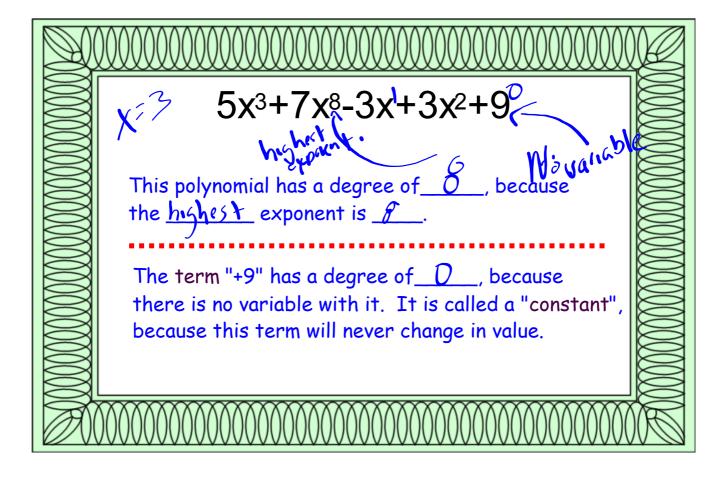
The coefficient of the variable... 15x ... is 15.

The coefficient is the number in front of the variable. $33x^2 = 13$



2 Terms: Coefficient Degree





Polynomials are written in descending order.

Each term is written

from the highest degree

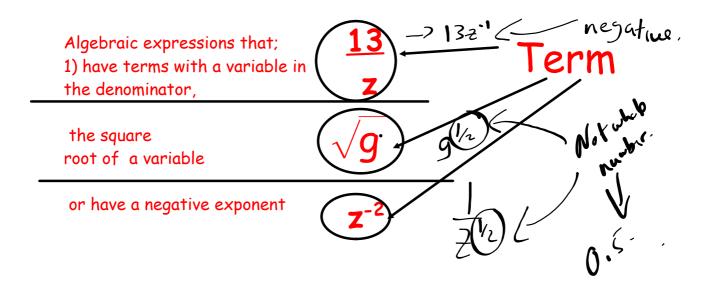
to the lowest.

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

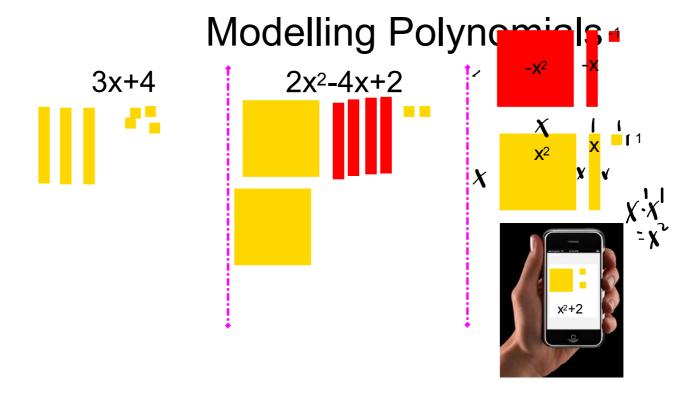
will be written as...

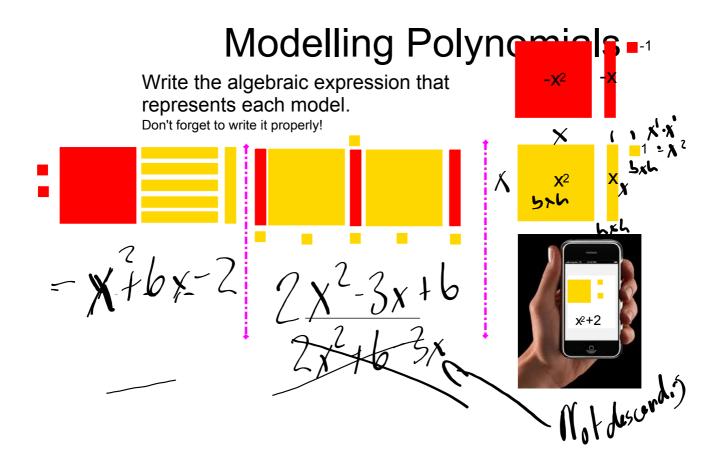
 $-3x^4+5x^3+4x^2-x^1+7^0$

highest > lowest



Are NOT polynomials!







Check out pages 214 - 2164-10

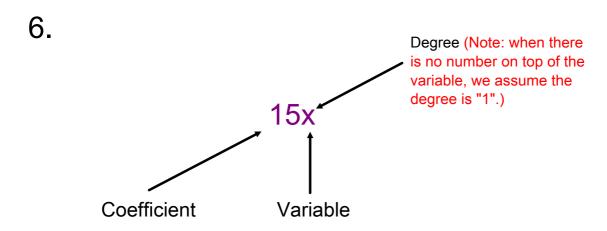
4. Which choices represent polynomials? Remember the three types of terms which affect polynomials...

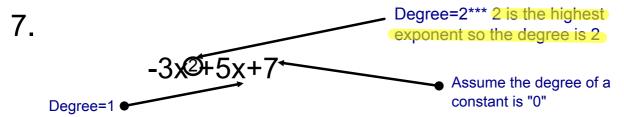
$$\frac{13}{7}$$
 \sqrt{g} z^{-2}

5.



monomial # of terms





Remember: The degree of a polynomial refers to the term which has the highest exponent in it.



- 8. Hint: 1) Rearrange all the polynomials into descending form (See slide 11)
- 2) Remember that different variables (ie "r" and "v" represent the same thing)

9.

11. see slides 13 and 14