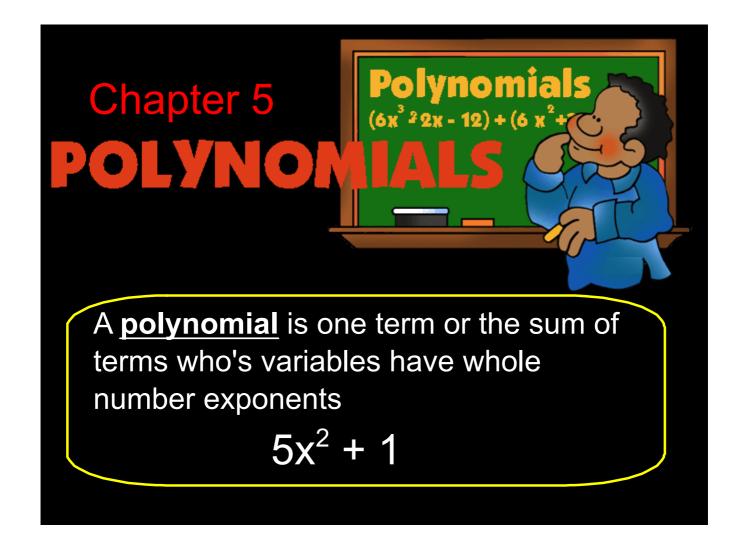
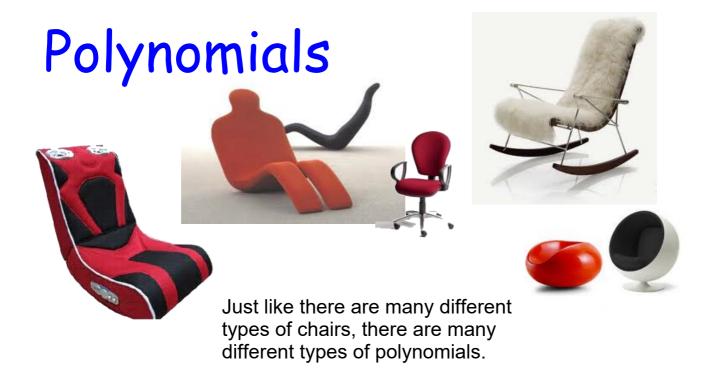
Curriculum Outcome

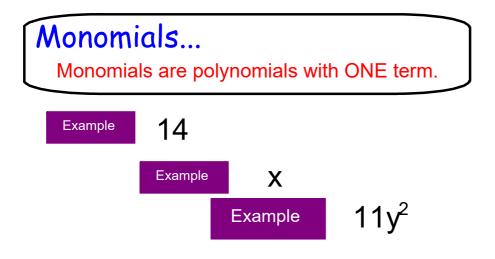
- (PR 5)Demonstrate an understanding of polynomials (limited to of degree less than or equal to 2).
- (PR 6) Model, record and explain the operations of addition and subtraction of polynomial expressions, concretely, pictorially and symbolically (limited to polynomials of degree less than or equal to 2).
- ☐ (PR 7) Model, record and explain the operations of multiplication and division of polynomial expressions (limited to polynomials of degree less than or equal to 2) by monomials, concretely, pictorially and symbolically.

Student Friendly:

"Identify the variables, degree, number of terms and coefficients, including the constant term, of a given simplified polynomial expression."









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

Binomials...

Binomials are polynomials with TWO terms.

$$7x + 3$$

$$12y - x$$

$$13x^2 + x$$
Example
$$Example$$

$$Example$$

$$Example$$

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

Trinomials...

Trinomials are polynomials with THREE terms.



Example

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

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

Example

$$8 + 5m - 7m^2$$

Example

Monomial

71

6x

Binomial

10x-5w

8b+2

Trinomial

 $6x^2-5x+8$

7y+9z-q

Sort the following polynomials into the above categories:





Coefficient is the number in front of the variable.

Variable means letter





Example: 15x

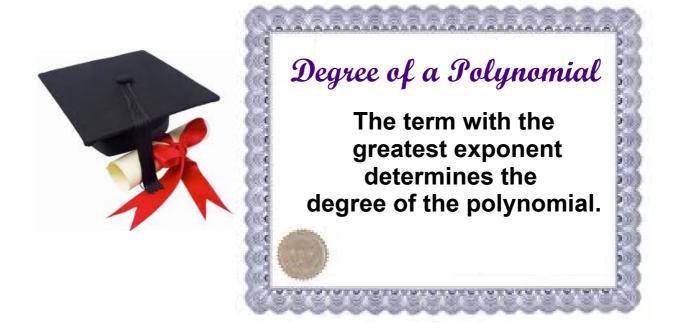
Example: -2y + 3r

Coefficient is 15

Coefficients is <u>-2</u>, 3

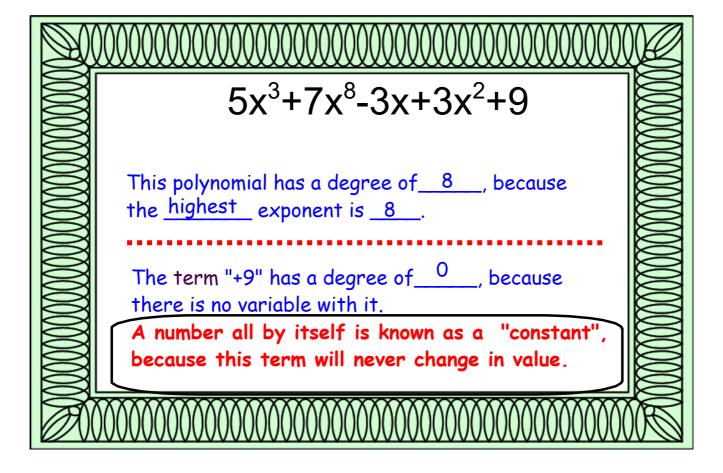
Variable is <u>x</u>

Variables is <u>y, r</u>



Example: $5x-3x^2+7$

Degree: 2



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

Coefficients: 2 and -4

Variable: x

Constant: 3

Degree: 6



Polynomials are written in descending order.

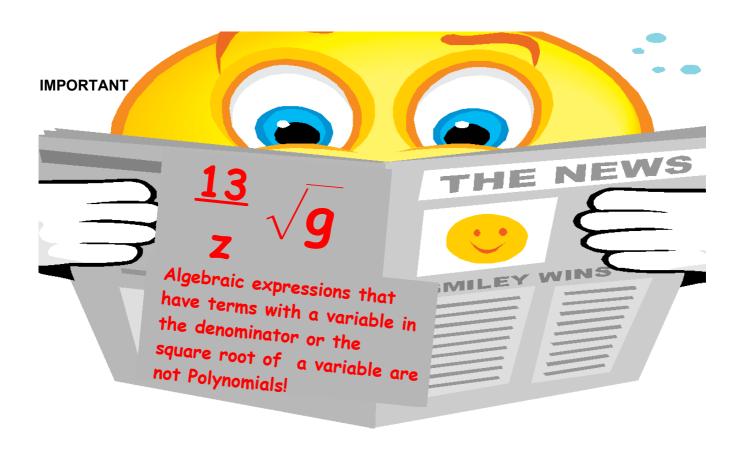
Each term is written from the highest degree to the lowest.

example:

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

will be written as...

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



Which are polynomials?

2)
$$\frac{3}{4}$$
 y

3)
$$x^2 + 1$$

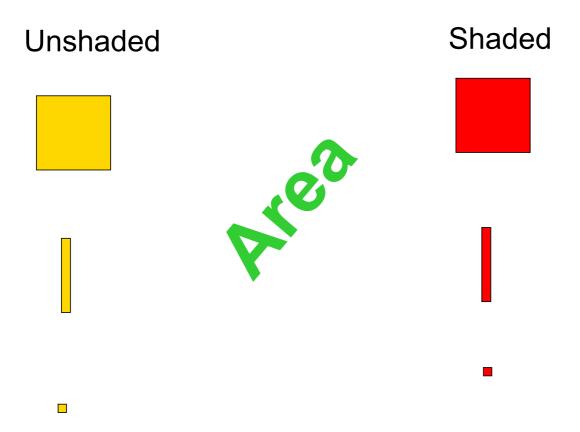
4)
$$\frac{3}{t}$$

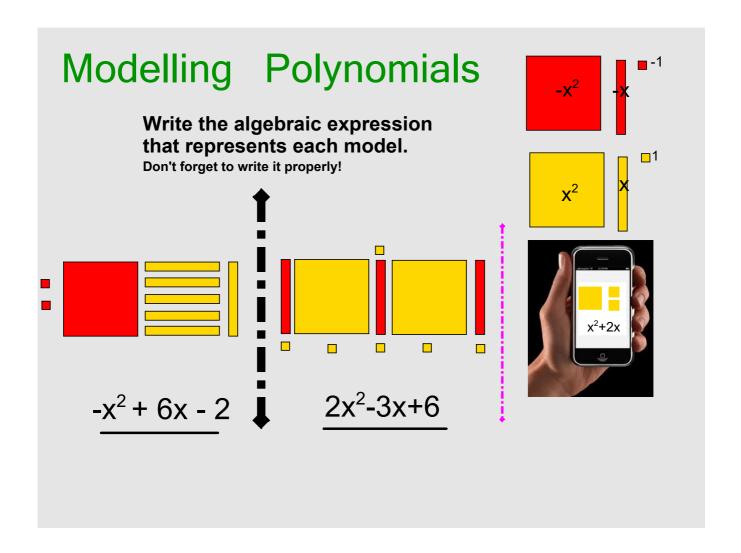
Not a Polynomial

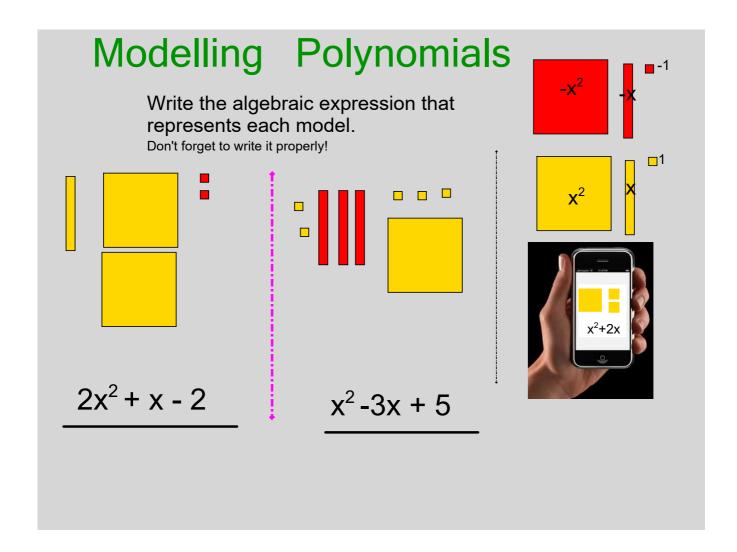
Polynomial

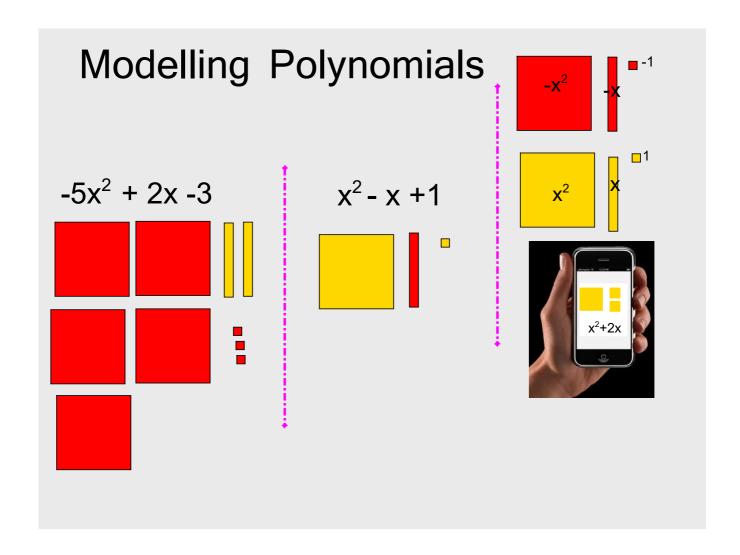
Polynomial

Not a Polynomial









Review

Terms with polynomials

Monomial: one term

Binomial: two terms

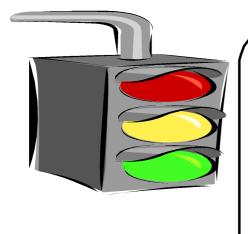
Trinomials: three terms

Variables: Letters

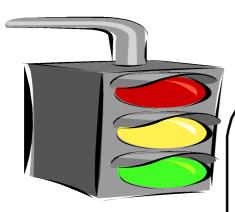
Coefficients: Numbers out in front of letters

Constant: the number all by itself

Degree: the highest exponent on a variable



Now it is time for Home Learning



PAGE 214-216 QUESTIONS

4, 5, 6, 7

8 (hint write all in descending order)

9 (set up a chart)

10

11 abc

12 (Sketch the tiles and put expression beside it)

13 adeh (Sketch the tiles and put expression beside it

14 ac