Chapter #5 Introduction of Polynomials

October 7, 2015 1:31 PM

5.1 Language of Mathematics

Algebra. a branch of mouth that uses symbols to represent unknown numbers/quantities

Algebaic



Algebraic EXPICESSIONS

-phrases with an "equal" sign

-phrases that du NOT
have equal signs
- Can have different #
of terms

term of number, variable (letter) or a product of numbers, and variables - are separated by addition or subtraction

Ex#1 How many terms?

$$x^2-2x+3$$

2 terms

$$2+ - 9 + +^3 - +^2$$

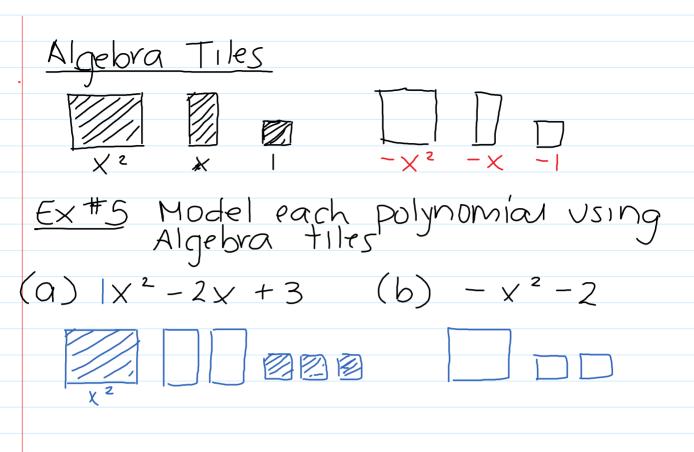
$$2 \times^2 y^5 z^7$$

4 terms

1 term

monomial a 1 term expression
binomial a 2 term expression
trinomial a 3 term expression
Polynomial 2 or more terms
"many" subtraction

Ex#2 Classify each expression X-2y -17x2y22 Dinomial monomial $\forall x$ monomial polynomial $2x^{2}-5+16xy$ x + y - 2 + 5ztrinomial polynomial polynomia Degree of a term sum of the exponents * the degree of a monomial is the sum of the exponents of its variables (letters) Ex #3 add " $-3 \sqrt{3}\sqrt{3}\sqrt{3} -7$ degree 6 vo variable $2\times$ clegree 1 \therefore clegree = 0 # the degree of a polynomial is the highest sum of the exponents in any I term $3y - 2y^3 + 2y^2$ $\frac{4x^2-3x^4+5}{2}$ degre é 3 25 x 3 p + 36 x 2 p 3 degree Z $\frac{4 \times 6 + 2 \times 3 \times 9}{6}$ degree 7 degree 4



pg 179 #5-14, 17-21, 24, 26, 28