

I. Polynomial: an algebraic expression in which all terms are of the form, “ ax^n ”

<i>e.g.</i> , $2x^3$	one term polynomial
$-x^2 + 5$	two " "
$3x^4 - 0.2x + \frac{1}{2}$	three " "
etc.	

II. Like Terms & Coefficients:

“like (or similar) terms” contain the same variable raised to the same power, while the constant # which is multiplied by the variable part is known as a “coefficient” (*i.e.*, in the expression “ ax^n ” the number “a” is its coefficient)...

III. Degree of a polynomial:

the term “ ax^n ” is said to be of degree “n” and the highest powered term (*i.e.*, largest exponent) determines the degree of the entire polynomial

IV. Examples (pp.341-342): Problems #2-46(even)

V. Simplifying Similar Terms:

similar terms may be combined (*i.e.*, simplified using either \pm), while unlike terms cannot...

e.g., $6x + 2x =$ _____

$$-3x^2 - 0.2x^2 = \underline{\hspace{2cm}}$$

$$\frac{-3x^2 + 2x}{}$$

note: the constants 6, 2, -3, -0.2, etc. are known as _____

VI. Examples (pp.342-343): Problems #48-88(even)

HW: pp.341-343 / Problems #1,3,9,11,13,15,17,
23-45(odd),47-87(odd)

Read pp.345-347 (section 5.4)