Polynomials Study Guide!

Classifying Polynomials by Type and Degree, Addition & Subtraction

A **monomial** has 1 term. *Is just a #, a variable, or the product of a # and variables.

A **binomial** has 2 terms. A **trinomial** has 3 terms. A **polynomial** any of these, not just 4 or more terms.

The **degree of a monomial** is the sum of the exponents of the variables. A constant has degree 0.

The **degree of a polynomial** is the degree of the ONE term/monomial with the greatest degree.
*do not add! A.L.L. powers of A.L.L. monomials!

Adding and Subtracting Polynomials

Adding: – Don't change any signs, just combine like terms!

Subtracting: –Change ALL signs of polynomial that is being subtracted, and then combine like terms.

Subtract $4x^2 + x^2y^2 - 4x^2y - 5xy^2 + 13$ from $4x^2y^2 + 5x^2y - xy^2 + 2x - 22$.

Lineup like terms, then subtract:

$$\begin{array}{rrrrrrr} & 4x^2y^2 & + x^2y & - xy^2 & + 2x & - 22 \\ - & 4x^2 & + x^2y^2 & - 4x^2y & - 5xy^2 & & + 13 \\ \hline & -4x^2 & - 5x^2y^2 & + x^2y & + 2xy^2 & + 2x & - 35 \end{array}$$

*Bonus rules, to combine like terms, just operate on the coefficients, don't touch the variables or exponents!
*Remember, like terms are same variable(s) AND same power(s)

Expanding Binomials *Do not distribute the power!

*Remember that x^2 means square all of x. ex. if x is 2x, then $x^2 = (2x)^2 = 4x^2$

Example: Expand $(2x - 4y)^2$.

Rewrite: $(2x - 4y)(2x - 4y)$.

Multiply: $\text{last} = 8y^2$, $\text{outside} = -8xy$, $\text{inside} = -8xy$, $\text{first} = 4x^2$

Combine like terms: $4x^2 - 8xy - 8xy + 8y^2$

$4x^2 - 16xy + 8y^2$

Cubing Binomials

$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$

Example: $(2x + 4y)^3$

$= (2x)^3 + 3(2x)^2(4y) + 3(2x)(4y)^2 + (4y)^3$

$= 8x^3 + 3(4x^2)(4y) + 3(2x)(16y^2) + 64y^3$

$= 8x^3 + 48x^2y + 96xy^2 + 64y^3$

$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

Example: $(2x - 4y)^3$

$= (2x)^3 - 3(2x)^2(4y) + 3(2x)(4y)^2 - (4y)^3$

$= 8x^3 - 3(4x^2)(4y) + 3(2x)(16y^2) - 64y^3$

$= 8x^3 - 48x^2y + 96xy^2 - 64y^3$

Study Guide Polynomials Answers

Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock

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decreases by 2.b. ... answer the following questions.Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a pro- ton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 208 Fr→ b ...