

# Polynomials Study Guide!

## Classification, Characteristics, Box, Terms, and Degrees, Addition & Subtraction

A **monomial** has 1 term. "The sum is 0, a variable, or the product of a # and variables."

A **binomial** has 2 terms. A **trinomial** has 3 terms. A **polynomial** any of these, and 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 term with the greatest degree.

"The first and ALL powers of ALL monomials"

## Addition and Subtraction, 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  $4x^2 + 2xy - 5y^2 - 3x^2$  from  $5xy^2 + 3xy - xy^2 + 2x - 2y$ .

Change like terms. Then subtract.

$$\begin{array}{r} 5xy^2 + 3xy - xy^2 + 2x - 2y \\ - (4x^2 + 2xy - 5y^2 - 3x^2) \\ \hline -4x^2 + 3y^2 + 2xy - 5y^2 + 3xy + 2x - 2y \end{array}$$

"Forget signs, no combining like terms, just separate out like coefficients, don't touch the variables or exponents!"

"Remember: Like terms are same variables w/ same powers!"

## Multiplication: "Do not distribute the power!"

"Remember that  $ab^2$  means square all of  $b$ ... ex. If  $a$  is  $2x$ , then  $ab^2 = (2x)^2 = 4x^2$ "

**Example:**  $(2x - 4y^2)(3x^2 - 5y^3)$   
distributive method:  $= 2x(3x^2 - 5y^3) - 4y^2(3x^2 - 5y^3)$   
 $= 6x^3 - 10x^2y^3 - 12x^2y^5 + 20y^5$   
 $= 6x^3 - 12x^2y^5 + 20y^5$

## Division: Monomials

$$16x + 8xy^2 + x^2 + 3x^2y + 2xy^2 + y^2$$

$$\text{Example: } (16x^3 + 8xy^2)$$

$$\begin{aligned} &= (16x^3)^2 + (8xy^2)^2 + (x^2)^2 + (3x^2y)^2 + (2xy^2)^2 + (y^2)^2 \\ &= 16x^6 + 64x^4y^4 + x^4 + 9x^4y^2 + 4x^2y^4 + y^4 \\ &= 16x^6 + 64x^4y^4 + x^4 + 9x^4y^2 + 4x^2y^4 + y^4 \end{aligned}$$

$$16x^3 - 8x^2y^2 + 3x^2y^4 - y^6$$

$$\text{Example: } (16x^3 - 8xy^2)$$

$$\begin{aligned} &= (16x^3)^2 - (8xy^2)^2 + (3x^2y)^2 - y^6 \\ &= 256x^6 - 64x^4y^4 + 9x^4y^2 - y^6 \\ &= 256x^6 - 64x^4y^4 + 9x^4y^2 - y^6 \end{aligned}$$

# Study Guide Polynomials Answers

Irene Doo

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Tecosky-Feldman, Thomas W. Tucker, Joseph Thrash, Karen R. Rhea, Andrew Pasquale, Sheldon P. Gordon, Douglas Quinney, Patti Frazer Lock, 1999-03-30 A revision of the best selling innovative Calculus text on the market. Functions are presented graphically, numerically, algebraically and verbally to give readers the benefit of alternate interpretations. The text is problem driven with exceptional exercises based on real world applications from engineering, physics, life sciences and economics. Revised edition features new sections on limits and continuity, limits 1, Hopital's Rule and relative growth rates and hyperbolic functions.

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[Study Guide to Accompany Functional Approach to Precalculus](#) Mustafa A. Munem, William Tschirhart, James P. Yizze, 1974

**Geometry Review Guide** Isidore Dressler, 1973

**Resources in Education**, 1973-05

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