UNIT 6: Polynomials

STUDY GUIDE

Name: _____ Date: _____ Period: _____

YOU SHOULD BE ABLE TO…

- ❑ Determine if an expression is a polynomial
- ❑ Write polynomials in standard form
- ❑ Classify polynomials by degree & # of terms
- ❑ Perform operations with polynomials
- ❑ Find the maxima & minima of polynomials
- ❑ Find the x- and y- intercepts of polynomials
- ❑ Find the domain and range of a polynomial
- ❑ Determine the intervals of increase and decrease of functions
- ❑ Determine the end behavior of a polynomial
- ❑ Sketch a graph of functions based on the characteristics
- ❑ Divide polynomials using long division
- ❑ Factor polynomials using various methods
- ❑ Divide polynomials using synthetic division
- ❑ Understand theorems of polynomials
- ❑ Apply theorems of polynomials
- ❑ Find the zeros of polynomials using various methods
- ❑ Write polynomial functions given information

1. Write the polynomial in standard form. Then, name the polynomial by degree and number of terms.

Polynomial	Standard Form	Name by degree and number of terms
$10v - v^3$		
$4a^3 - 8a^2 + 10a^5$		
$-9x^3 - x^4 + 5x - 1$		

2. Determine if the following are polynomials. If not, explain why not

$4 + \sqrt{x} + 5x$	YES/NO	$5x^3 + 4x - \frac{1}{2}$	YES/NO
$3x^{-4} + 2x + 12$	YES/NO	$5 + 3x^2 + x - 2^x$	YES/NO

3. Perform each of the following operations

$f(x) = 2x^2 + 5x - 4$ $g(x)=x$ $h(x)=5x - 1$ $k(x) = -2x^3 - 5x^2 + 3x$	$f(x) + k(x)$	$k(x) - g(x)$
	$k(x) - f(x)$	$h(x) \cdot f(x)$

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Polynomial Functions Study Guide

J Dewey

Polynomial Functions Study Guide:

Decoding **Polynomial Functions Study Guide**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Polynomial Functions Study Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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