

# UNIT 6: Polynomials

## STUDY GUIDE

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### YOU SHOULD BE ABLE TO...

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

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

# Polynomial Functions Study Guide

**KJ Lindholm-Leary**



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