### 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
- L. 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 <sup>3</sup>		
4a <sup>3</sup> - 8a <sup>2</sup> + 10a <sup>5</sup>		
-9x <sup>3</sup> - x <sup>4</sup> + 5x -		

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

YES/NO	5x3 + 4x - 1	YES/NO
YES/NO	5 + 3x <sup>2</sup> + x - 2 <sup>x</sup>	YES/NO
	0.000000000000000000000000000000000000	

3. Perform each of the following operations

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

# **Polynomial Functions Study Guide**

**Peipei Pang** 

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