

# 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:

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

# Polynomial Functions Study Guide

**Thomas Griffiths**



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