

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:

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

Polynomial Functions Study Guide

Ensheng Dong



Polynomial Functions Study Guide:

The Top Books of the Year Polynomial Functions Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Polynomial Functions Study Guide : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Polynomial Functions Study Guide : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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