

NOTES - POLYNOMIAL FUNCTIONS

Use the graph below to fill in the missing information from the table. You can use the graph to verify the appropriate CODE and YES/NO.

Definition	Rule(s) or Interval(s)	Code
The highest point on a graph is a given area.	$(-3.5, 2)$; $(2, 3)$	green
The lowest point on a graph is a given area.	$(-5, -3.5)$	blue
The highest point on the entire domain of a function.	$(2, 3)$	circle the peak
The lowest point on the entire domain of a function.	none (end behavior)	circle the peak
The point at which the graph crosses the x-axis.	$-5, -2, 2.5$	black
The point at which the graph crosses the y-axis.	-3	purple
The interval in which the graph crosses the x-axis.	$(-5, -2)$; $(2, 2.5)$	yellow
An interval in which the y-values are increasing.	$(-5, -2)$ U $(2, 2.5)$	red
An interval in which the x-values are decreasing.	$(-3.5, -5)$ U $(2, 2.5)$	red

NOTES - POLYNOMIAL FUNCTIONS

METHOD	PROCESS	APPLY
Slop and Divide Use for binomials with a leading coefficient. $ax^2 + bx + c = 0$	- Multiply a and c, for a new c term. - Factor the binomial using the basic method. - Divide the roots by a and simplify. - Denominators are your roots and numerator are your factors.	$2x^2 + 9x + 20$ $(2x+5)(x+4)$ $(2x+5)(x+4)$
Difference of Squares Two terms $a^2 - b^2 = (a+b)(a-b)$	- Square root a and b. - Use the roots to create your factors.	$a = 2x$ $b = 7$ $(2x+7)(2x-7)$ FOIL $4x^2 - 49x + 49x - 49$ $a = x$ $b = 5$ $(x-5)(x+5)$
Difference of Cubes Two terms $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$	- Cube root a and b. - Plug into the formula.	

NOTES - POLYNOMIAL FUNCTIONS

Polynomial Long Division

Do you remember how to do long division?

Numbers	Polynomials
$72 \div 12 = 6$ $12 \overline{) 72}$ $\underline{72}$ 0	$254 \div 3$ $3 \overline{) 254}$ $\underline{24}$ 14 $\underline{12}$ 2

Names of Expressions in Polynomial Division

Check a Quotient

Quotient $\times$ Divisor $+$ Remainder $=$ Dividend

NOTES - POLYNOMIAL FUNCTIONS

Operations with Polynomials

Terms that contain the same variables taken to the same powers.

Adding like terms?

SUBTRACT

To add or subtract polynomials, combine like terms.

Horizontally

ADD $(3x + 12) + (2x^2 - 4x + 3)$

$2x^2 + 14x + 15$

Steps:

- Eliminate the parentheses
- Combine like terms
- Write in standard

GUIDED NOTES

NOTES - POLYNOMIAL FUNCTIONS

1. Polynomials in x are in the form $a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ where $a_n \neq 0$.

2. All terms must be included, so if you have an x^2 , then you must have an x , if there isn't an x , then write $0x$ for the missing term.

3. Repeat the process of divide, multiply, and subtract until no more divisions can be made.

4. Place the each term in the quotient directly above its counterpart in the dividend.

5. x^n directly above x^n .

STEPS: in your own words

- Determine the value for x .
- Put the value for x in the box next to the coefficients to the right of x .
- Bring down the first coefficient, 3 , then multiply by -3 and put the result in the next column.
- Add the values in the 2nd column, 3 , then multiply by -3 and put the result in the next column.
- Repeat step 4. Add the values in the 3rd column, 3 , then multiply by -3 and put the result in the next column.
- Add the last column and put the result in the next column.

Divide: $3x^2 + 17x + 3$ by $(x+3)$

$3x^2 + 17x + 3$

$3x^2 + 9x + 27$

$\underline{8x - 24}$

$8x + 24$

$\underline{-27}$

0

NOTES - POLYNOMIAL FUNCTIONS

Rational Root Theorem

$y = 2x^3 + 9x^2 - 18x + 4$

Let $p =$ factors of the constant term, which is 4 .

Let $q =$ factors of the leading coefficient, which is 2 .

$\frac{p}{q}$ are possible roots of this polynomial.

- List the factors of p : $\pm 1, \pm 2, \pm 3, \pm 4$
- List the factors of q : $\pm 1, \pm 2$
- List all the possibilities for $\frac{p}{q}$ in reduced form: $\pm 1, \pm \frac{1}{2}, \pm 2, \pm 3, \pm \frac{3}{2}, \pm 4$

1 - Use for polynomials with integer coefficients.
2 - Identify possible rational solutions.
3 - A root must be a factor of p and q in the form:

$\frac{p}{q} = \frac{\text{factors of the constant term}}{\text{factors of the leading term}}$

Binomial	Trinomial	Quinomial
$x = 1$ NO	$x = -1$ NO	$x = 2$ YES
$x = 2$ YES	$x = -2$ NO	$x = 3$ NO
$x = 4$ NO	$x = -4$ NO	$x = 5$ NO
		$x = 6$ YES

NOTES - POLYNOMIAL FUNCTIONS

Monomials to Polynomials

What is a Polynomial?

- Means many terms.
- A monomial or sum of monomials.
- Only whole number exponents.
- Continuous function.

2 Terms:	3 Terms:	4 or more terms:
binomial $5x + 7$	trinomial $x^2 + 3x - 2$	polynomial $3x^2y + 4x - y - 8$

Standard Form

1. Term with the highest degree first, then descending order.

2. alphabetical order ex: $2x^2$ before $5y^2$

NOTES - POLYNOMIAL FUNCTIONS

Graphs of $y = x^2$, $y = x^3$, $y = x^4$, and $y = x^5$.

Left: $-\infty$ Right: $+\infty$

Left: $-\infty$ Right: $+\infty$

Left: $-\infty$ Right: $+\infty$

Left: $-\infty$ Right: $+\infty$

negative 4

negative 3

neg 2

ALGEBRA and Beyond [ALG. ∞]

Ss6h6 Guided Notes

Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

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Table of Contents Ss6h6 Guided Notes

1. Understanding the eBook Ss6h6 Guided Notes
 - The Rise of Digital Reading Ss6h6 Guided Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Ss6h6 Guided Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ss6h6 Guided Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ss6h6 Guided Notes
 - Personalized Recommendations
 - Ss6h6 Guided Notes User Reviews and Ratings
 - Ss6h6 Guided Notes and Bestseller Lists

5. Accessing Ss6h6 Guided Notes Free and Paid eBooks
 - Ss6h6 Guided Notes Public Domain eBooks
 - Ss6h6 Guided Notes eBook Subscription Services
 - Ss6h6 Guided Notes Budget-Friendly Options
6. Navigating Ss6h6 Guided Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Ss6h6 Guided Notes Compatibility with Devices
 - Ss6h6 Guided Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ss6h6 Guided Notes
 - Highlighting and Note-Taking Ss6h6 Guided Notes
 - Interactive Elements Ss6h6 Guided Notes
8. Staying Engaged with Ss6h6 Guided Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ss6h6 Guided Notes
9. Balancing eBooks and Physical Books Ss6h6 Guided Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ss6h6 Guided Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ss6h6 Guided Notes
 - Setting Reading Goals Ss6h6 Guided Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ss6h6 Guided Notes
 - Fact-Checking eBook Content of Ss6h6 Guided Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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