

Polynomial Functions & Equations

Subject content: polynomial functions & their graphs; factor & remainder theorems; fundamental theorem of algebra; solving polynomial equations & inequalities both graphically & algebraically; sum & product of the roots of a polynomial equation.

(continued on next page)

Exercises

Part I – questions 1–11, ggg calculator allowed

1. Consider a parabola (shown in diagram) that has a vertex at $(4, 0)$ and passes through the point $(6, -2)$. Find the equation of this parabola and write it in the form $y = ax^2 + bx + c$.



2. The graph of a quartic function (shown in diagram) has exactly three x-intercepts at $x = -2$, $x = 2$ and $x = 4$, and has a y-intercept at $y = 8$. Express the equation for this function in the form $y = a_1x^4 + a_2x^3 + a_3x^2 + a_4x + a_5$.

3. Given that $x = 2$ and $x = -3$ are roots of the polynomial function, $p(x) = (x^2 + 4x^2 + 5x + 6)$ find the remaining roots of p .
4. Given that $x^2 + 4x^2 + x + 27$ is exactly divisible by both $x + 1$ and $x + 2$, find the value of a and the value of b .
5. Find a polynomial with integer coefficients of lowest degree having roots of $x = -\frac{1}{2}$ and $x = 2 + i$.
6. $x = 2$ is a factor of the polynomial $p(x) = x^3 + axx^2 + bx + 4$.
- (a) Show that $a + b = 5$.
- (b) Show that p can be written in factored form as $p(x) = (x + 1)(x^2 + px + q)(x + 4)$.
7. The polynomial $ax^2 + 4x^2 + ax + 36$ is divisible by $x^2 + 6$. Find the value of a and the value of x .
8. Write the function $p(x) = x^3 + 4x^2 + 5x + 2$ is divided by $(x + 3)$ in terms of some remainder so when it is divided by $(x + 1)$. Find the value of b .

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Victor M. Corman



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Table of Contents Polynomial Functions Tesccc Answers

1. Understanding the eBook Polynomial Functions Tesccc Answers
 - The Rise of Digital Reading Polynomial Functions Tesccc Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Polynomial Functions Tesccc Answers
 - 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 Polynomial Functions Tesccc Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polynomial Functions Tesccc Answers
 - Personalized Recommendations
 - Polynomial Functions Tesccc Answers User Reviews and Ratings
 - Polynomial Functions Tesccc Answers and Bestseller Lists

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