QUESTION 1

1.1 Solve, for $x \in \mathbb{R}$:

(a) $2e^{x} - 7 + 6e^{-x} = 0$, expressing your answers in exact form using logs

$\therefore 2e^{2x} - 7e^{x} + 6 = 0$

$\therefore (2e^{x} - 3)(e^{x} - 2) = 0$

$\therefore e^{x} = \frac{3}{2}$ or $e^{x} = 2$

$\therefore x = \ln\frac{3}{2}$ or $x = \ln 2$

(b) $|2x + 3| = 5x - 2$

$|2x + 3| = 5x - 2$

$2x + 3 = 5x - 2$ or $2x + 3 = -(5x - 2)$

$\therefore 5 = 3x$ or $7x = -1$

$\therefore x = \frac{5}{3}$ or $x = -\frac{1}{7}$

a check reveals that $x = \frac{5}{3}$ only

(c) Solve $\frac{(-x^2 - 5)(x^2 - 16)}{|x + 3|(x + 2)} \geq 0$

$\frac{(-x^2 - 5)(x^2 - 16)}{|x + 3|(x + 2)} \geq 0$

$\therefore \frac{(-x^2 - 5)(x^2 - 16)}{(x + 2)} \geq 0$

$\therefore \frac{(x^2 - 16)}{(x + 2)} \leq 0$

$\therefore \frac{(x - 4)(x + 4)}{(x + 2)} \leq 0$

$\therefore x \leq -4$ or $-2 < x \leq 4$

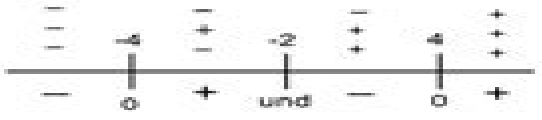

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Table of Contents Advanced Programme Mathematics Past Papers Grade 11

1. Understanding the eBook Advanced Programme Mathematics Past Papers Grade 11
    - The Rise of Digital Reading Advanced Programme Mathematics Past Papers Grade 11
    - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Programme Mathematics Past Papers Grade 11
    - 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 Advanced Programme Mathematics Past Papers Grade 11
    - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Programme Mathematics Past Papers Grade 11
    - Personalized Recommendations
    - Advanced Programme Mathematics Past Papers Grade 11 User Reviews and Ratings
    - Advanced Programme Mathematics Past Papers Grade 11 and Bestseller Lists
5. Accessing Advanced Programme Mathematics Past Papers Grade 11 Free and Paid eBooks
    - Advanced Programme Mathematics Past Papers Grade 11 Public Domain eBooks
    - Advanced Programme Mathematics Past Papers Grade 11 eBook Subscription Services

- Advanced Programme Mathematics Past Papers Grade 11 Budget-Friendly Options

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