

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

$$\begin{aligned} \therefore 2e^{2x} - 7e^x + 6 &= 0 \\ \therefore (2e^x - 3)(e^x - 2) &= 0 \\ \therefore e^x &= \frac{3}{2} \text{ or } e^x = 2 \\ \therefore x &= \ln \frac{3}{2} \text{ or } x = \ln 2 \end{aligned}$$

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

$$\begin{aligned} |2x + 3| &= 5x - 2 \\ 2x + 3 &= 5x - 2 \text{ or } 2x + 3 = -(5x - 2) \\ \therefore 5 &= 3x \text{ or } 7x = -1 \\ \therefore x &= \frac{5}{3} \text{ or } x = -\frac{1}{7} \end{aligned}$$

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

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

$$\begin{aligned} \frac{(-x^2 - 5)(x^2 - 16)}{|x + 3|(x + 2)} &\geq 0 \\ \therefore \frac{(-x^2 - 5)(x^2 - 16)}{(x + 2)} &\geq 0 \\ \therefore \frac{(x^2 - 16)}{(x + 2)} &\leq 0 \\ \therefore \frac{(x - 4)(x + 4)}{(x + 2)} &\leq 0 \\ \therefore x \leq -4 \text{ or } -2 < x \leq 4 \end{aligned}$$



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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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