

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

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



# Advanced Programme Mathematics Past Papers Grade 11

**LL Leslie**

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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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