

2
SECTION A
[48 marks]

Answer all the questions in this section. All questions carry equal marks.

1. A binary operation Δ is defined on the set of real numbers, R , by $x \Delta y = x + y + 10$. Find the:
(a) identity element;

(b) inverses of 3 and -5 under Δ .

2. Evaluate $\int_2^4 \left(\frac{x^2 + 3}{x^2} \right) dx$.

3. Two functions f and g are defined on the set of real numbers, R , by $f: x \rightarrow x^2 - 1$ and $g: x \rightarrow x + 2$. Find $f \circ g(-2)$.

(b) A bus has 6 seats and there are 8 passengers. In how many ways can the bus be filled?

4. Express $\frac{1}{x^2 - 16}$ in partial fractions.

5. The table shows the marks scored by some students in a class test.

Marks	11 - 14	15 - 18	19 - 22	23 - 26	27 - 30	31 - 34	35 - 38
No. of Students	4	5	18	31	25	14	3

(a) Draw a histogram for the distribution.

(b) Use the histogram to estimate the modal score, correct to one decimal place.

6. A bag contains 10 black and 5 yellow identical balls. Two balls are picked at random from the bag one after the other without replacement. Calculate the probability that the are:

(a) both black;

(b) of the same colour.

7. Forces $F_1(24 \text{ N}, 120^\circ)$, $F_2(18 \text{ N}, 240^\circ)$ and $F_3(12 \text{ N}, 300^\circ)$ act at a point. Find, correct to two decimal places, the magnitude of their resultant force.

8. The vectors p , q and r are mutually perpendicular with $|q| = 3$ and $|r| = \sqrt{5.4}$. If the vectors $X = 3p + 5q + 7r$ and $Y = 2p + 3q - 5r$ are perpendicular, find $|p|$.

Emath Paper Answers Science

VM Jensen



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Table of Contents Emath Paper Answers Science

1. Understanding the eBook Emath Paper Answers Science
 - The Rise of Digital Reading Emath Paper Answers Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Emath Paper Answers Science
 - 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 Emath Paper Answers Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emath Paper Answers Science
 - Personalized Recommendations
 - Emath Paper Answers Science User Reviews and Ratings
 - Emath Paper Answers Science and Bestseller Lists
5. Accessing Emath Paper Answers Science Free and Paid eBooks
 - Emath Paper Answers Science Public Domain eBooks
 - Emath Paper Answers Science eBook Subscription Services
 - Emath Paper Answers Science Budget-Friendly Options

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