

(i) If  $(\bar{A})' = -A$  then A is called

(a) Symmetric matrix (b) Skew symmetric matrix (c) Hermitian matrix (d) Skew Hermitian matrix

(ii) If W is a linear subspace of V then

(a)  $\dim(W) \leq \dim(V)$  (b)  $\dim(W) \geq \dim(V)$  (c)  $\dim(W) = \dim(V)$  (d) None of these

(iii) A set of linear equations is represented by the matrix equation  $Ax = b$ . The necessary condition for the existence of a solution for this system is

(a) A must be invertible (b) b must be linearly depended on the columns of A (c) b must be linearly independent on the columns of A (d) none of these

(iv) A unit vector orthogonal to both  $(1, 1, 2)$  and  $(0, 1, 3)$  in  $\mathbb{R}^3$  is -----

(a)  $\left(\frac{1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$  (b)  $\left(\frac{-1}{\sqrt{11}}, \frac{3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$  (c)  $\left(\frac{2}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{-1}{\sqrt{11}}\right)$  (d)  $\left(\frac{-1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$

(v) The characteristic polynomial of the matrix  $\begin{pmatrix} 2 & 0 \\ 0 & 0 \end{pmatrix}$  is.....

(a)  $\dim(W) = \dim(V)$  (b)  $p(\lambda) = (2 - \lambda)(3 - \lambda)$  (c)  $p(\lambda) = 0$  (d) None of these

(vi) The property  $\forall a, b \in R$  then  $a + b = b + a = b \in R$  then a is called

(a) Identity (b) Inverse (c) Conjugate (d) None of these

(vii) The subspace of  $R^3$  spanned by the vector  $(a, b, c)$  is -----

(a)  $x = t, y = bt, z = ct$  (b)  $x = -at, y = -bt, z = -ct$  (c)  $x = at, y = bt, z = ct$  (d) None of these

(viii) Let  $R^3$  be the vector space of all ordered triples of real numbers. Then the transformation

$T : R^3 \rightarrow R^3$  defined by  $T(x, y, z) = (x, y, z)$  is

(a) Identity (b) Not Linear (c) Rational (d) None of these

(ix) A linear transformation T that is both one-one and onto is has  $\text{Ker}(T)$

(a) 0 (b) 1 (c) 2 (d) None of these

(x) Let V be vector space of finite dimension n. Then any  $n+1$  or more vectors in V is -----

(a) linearly dependent (b) linearly independent (c) both (a) and (b) (d) none of these.

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### **Table of Contents Advanced Programme Mathematics Past Papers Grade 1**

1. Understanding the eBook Advanced Programme Mathematics Past Papers Grade 1
  - The Rise of Digital Reading Advanced Programme Mathematics Past Papers Grade 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Programme Mathematics Past Papers Grade 1
  - 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 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Programme Mathematics Past Papers Grade 1
  - Personalized Recommendations
  - Advanced Programme Mathematics Past Papers Grade 1 User Reviews and Ratings

- Advanced Programme Mathematics Past Papers Grade 1 and Bestseller Lists
- 5. Accessing Advanced Programme Mathematics Past Papers Grade 1 Free and Paid eBooks
  - Advanced Programme Mathematics Past Papers Grade 1 Public Domain eBooks
  - Advanced Programme Mathematics Past Papers Grade 1 eBook Subscription Services
  - Advanced Programme Mathematics Past Papers Grade 1 Budget-Friendly Options
- 6. Navigating Advanced Programme Mathematics Past Papers Grade 1 eBook Formats
  - ePUB, PDF, MOBI, and More
  - Advanced Programme Mathematics Past Papers Grade 1 Compatibility with Devices
  - Advanced Programme Mathematics Past Papers Grade 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Advanced Programme Mathematics Past Papers Grade 1
  - Highlighting and Note-Taking Advanced Programme Mathematics Past Papers Grade 1
  - Interactive Elements Advanced Programme Mathematics Past Papers Grade 1
- 8. Staying Engaged with Advanced Programme Mathematics Past Papers Grade 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Advanced Programme Mathematics Past Papers Grade 1
- 9. Balancing eBooks and Physical Books Advanced Programme Mathematics Past Papers Grade 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Advanced Programme Mathematics Past Papers Grade 1
- 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 1
  - Setting Reading Goals Advanced Programme Mathematics Past Papers Grade 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advanced Programme Mathematics Past Papers Grade 1
  - Fact-Checking eBook Content of Advanced Programme Mathematics Past Papers Grade 1
  - 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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