

QUESTION BANK OF ENGINEERING MATHEMATICS 20SC01T

UNIT-1: MATRICES AND DETERMINANTS (SECTION-I)

I. 4 MARK QUESTIONS.

1. If $A = \begin{bmatrix} 4 & 5 \\ 1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 0 & 6 \\ 1 & 3 \end{bmatrix}$, find the matrix $3A + 2B$.
2. If $A = \begin{bmatrix} 4 & 5 \\ 3 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 4 \\ 4 & 1 \end{bmatrix}$, find the matrix $3A - 2B$.
3. If $X = \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix}$ and $Y = \begin{bmatrix} 5 & 0 \\ 3 & 2 \end{bmatrix}$, then find $4X + 3Y$.
4. If $A = \begin{bmatrix} 2 & 1 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$, then find $2A + 3B$.
5. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix}$, then find $3A - B$.
6. If $\begin{bmatrix} 2 & 3 \\ x & y \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 3 & 3 \\ 4 & 5 \end{bmatrix}$ find the value of x and y .
7. If $A = \begin{bmatrix} 3 & 2 \\ 2 & 0 \end{bmatrix}$ then find $A + A^T$ matrix.
8. If the matrix $A = \begin{bmatrix} x & 3 \\ 3 & x \end{bmatrix}$ is a singular matrix find the value of x .
9. If $A = [1 \ 2 \ 3]$ and $B = \begin{bmatrix} 3 & 1 \\ 2 & 4 \\ 1 & 0 \end{bmatrix}$, find AB matrix.

10. Define square and rectangular matrices.

II. 5 MARKS QUESTIONS

1. Solve the system of linear equations by applying Cramer's rule $3x + 2y = 8; 2x + 5y = 9$
2. Solve the equations $x + y = 3; 2x + 3y = 8$ by Cramer's rule.
3. Solve the system equations $2x - y = 3; x + 2y = 4$ by determinant method.
4. Solve the system equations $2x + 3y = 5; x + 4y = 5$ by applying Cramer's rule.
5. If $A = \begin{bmatrix} 5 & -2 \\ 3 & 1 \end{bmatrix}$ verify that $A(\text{adj}A) = |A|I$ where $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
6. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 1 \\ 3 & 4 \end{bmatrix}$, find AB matrix and also find $(AB)^T$ matrix.
7. If $\begin{bmatrix} x & 2 \\ 3 & 4 \end{bmatrix} = \begin{bmatrix} 3 & 2 \\ 0 & x \end{bmatrix}$ find the value of x .

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Table of Contents Engineering Mathematics 1 Solved Question With Answer

1. Understanding the eBook Engineering Mathematics 1 Solved Question With Answer
 - The Rise of Digital Reading Engineering Mathematics 1 Solved Question With Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics 1 Solved Question With Answer
 - 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 Engineering Mathematics 1 Solved Question With Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics 1 Solved Question With Answer
 - Personalized Recommendations
 - Engineering Mathematics 1 Solved Question With Answer User Reviews and Ratings

- Engineering Mathematics 1 Solved Question With Answer and Bestseller Lists
- 5. Accessing Engineering Mathematics 1 Solved Question With Answer Free and Paid eBooks
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 - Engineering Mathematics 1 Solved Question With Answer eBook Subscription Services
 - Engineering Mathematics 1 Solved Question With Answer Budget-Friendly Options
- 6. Navigating Engineering Mathematics 1 Solved Question With Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mathematics 1 Solved Question With Answer Compatibility with Devices
 - Engineering Mathematics 1 Solved Question With Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mathematics 1 Solved Question With Answer
 - Highlighting and Note-Taking Engineering Mathematics 1 Solved Question With Answer
 - Interactive Elements Engineering Mathematics 1 Solved Question With Answer
- 8. Staying Engaged with Engineering Mathematics 1 Solved Question With Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mathematics 1 Solved Question With Answer
- 9. Balancing eBooks and Physical Books Engineering Mathematics 1 Solved Question With Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mathematics 1 Solved Question With Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mathematics 1 Solved Question With Answer
 - Setting Reading Goals Engineering Mathematics 1 Solved Question With Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mathematics 1 Solved Question With Answer
 - Fact-Checking eBook Content of Engineering Mathematics 1 Solved Question With Answer
 - 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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