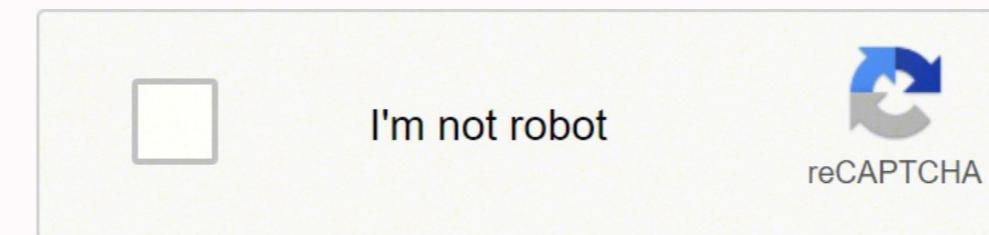


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Integrals 7.1 Integration 7.2 Integration as an inverse process of differentiation 7.3 Integration Methods 7.4 Integration of certain particular functions 7.5 Integration by Partial Fractions 7.6 Integration by Substitution 7.7 Definite Integrals 7.8 Fundamental Theorem of Calculus 7.9 Evaluation of Definite Integrals 7.10 Properties of Definite Integrals 8. Differential Equations 8.1 Introduction 8.2 Basic Concepts 8.3 General and particular solutions of differential Equation 8.4 Formation of Differential Equations 8.5 Solution of a Differential Equation 8.6 General Solution is given 9.3 Method of First Order, First Degree Solution 10. Differential Equations of Higher Order 10.1 Linear Differential Equations 10.2 Bernoulli's Equation 10.3 Linear Differential Equations of Second Order with Constant Coefficients 10.4 Applications of Differential Equations 11.1 Integrals 11.2 Direct integration 11.3 Reduction formulae 11.4 Angle between two lines 11.5 Minimum distance between two lines 11.6 Plane 11.7 Coplanarity of two lines 11.8 Angle between two planes 11.9 Distance of a point from a plane 11.10 Angle between a line and a plane The number 12. Linear Programming 12.1 Introduction 12.2 Linear Programming Problems and its Mathematical Formulation 12.3 Different Types of Linear Programming Problems 13. Probability 13.1 Introduction 13.2 Conditional probability 13.3 Multiplication theorem on probability 13.4 Independent Events 13.5 Bayes' theorem 13.6 Random variables and their probability distributions 13.7 Bernoulli's Proofs and Binomial Distribution NCERT Solution Chapter 4. Determinants In the previous chapter we have studies matrices and matrix algebra . We also learned that a system of algebraic equations can be expressed as matrices. In this chapter we will study the determinants up to order three only with real voices. In addition, we will study various properties of determinants, minors, cofactors and determinant applications in finding the area of a triangle, adjacent and inverse of a square matrix, the consistency and inconsistency of the system of linear equations, and the solution of linear equations into two or three variables using the inverse of a matrix. NCERT Solutions for Class 12 Mathematics NCERT Solutions for Class 12 Mathematics PDF (Download) Free from the myCBSEguide app and the myCBSEguide website. Ncert solution class 12 Mathematics includes the solutions for textbooks in Part 1 and Part 2. NCERT solutions for class 12 CBSE math have a total of 13 chapters. Class 12 Mathematics ncert Free pdf solutions. 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Board CBSE Manual Class NCERT 12 Mathematical Item Chapter 4 Chapter Name of Chapter Determining Exercises Ex 4.1 Number of Fixed Questions 8 Category Solutions NCERT Class Solutions NCERTMathematics Chapter 4 Determinants Ex 4.1 Ex 4.1 Class 12 Matere Questions 1. Evaluate the following determining: Solution:  $= 2x(-1)-(5)x(4) = -2+20 = 18$  NCERT Solutions for Class 12 Maths Chapter 4; Kopykitab provides NCERT Solutions for Class 12 Maths Chapter 4 Determinants, which are created by our professional faculty. All the questions in the chapter have step by step solutions, and each solution has been explained using appropriate examples or formulas. All you need to know about NCERT Solutions for Class 12 Maths Through additional skills building tasks aimed at their degree, skills and interests, we strive to bring the best in you. Download NCERT Solutions for Class 12 Maths Chapter 3 PDF! 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Let's now check the subtopic covered in this chapter. 4.1 Introduction 4.2 Determining properties 4.4 Triangle area 4.5 Minors and cofactors 4.6 Adhesion and reverse of matrix 4.7 Application of determinants and matrices Determining Class 12 NCERT Exercises Solutions follows: Exercise 4.1 Solutions 8 Questions (2 Long, 5 Brief Answers, 1 MCQ) Exercise 4.2 Solutions 16 Questions (7 Long, 7 Short, 2 MCQ) Solutions 4.1: Introduction: The previous chapter has already taught students to place the system in a correct linear equation format in the matrices. In addition, they studied some other important details in the last chapter. The first intro portion will offer a brief summary that will help them understand this chapter better. NCERT Solutions for Class 12 Maths Chapter 4 - Determinants: 4.2: Determinations The section covers the 4.2.1 Determining of an order matrix one 4.2.2 Determining of an order matrix two 4.2.3 Determining of an order matrix  $3 \times 3$  The section provides a calculation lesson of the determining of a square matrix in a square matrix row, for example, that, two or three with easy examples. NCERT Solutions for Class 12 Maths Chapter 4 à Determinants: 4.3: Properties of Determinants As the title suggests, this segment will provide detailed knowledge about the properties of determinants simplifying the calculation by acquiring the maximum number of zero in a row or column. These properties are applicable for any determinant of any order. But this chapter only establishes order three determinants. NCERT Solutions à Class 12 Maths Chapter 4 à Determinants: 4.4 Triangle Area Students can calculate the area of a triangle with the help of formulas when the coordinates of three vertices have been given. The portion covers the search for the area of a triangle by metering the points into a determinant. NCERT Solutions à Class 12 Maths Chapter 4 à Determinants: 4.5 Minors and Cofactors This section covers the concept of expanding the determinant in compact form with minors and cofactors after finishing the problems in the chapters. NCERT Solutions for Class 12 Maths Chapter 4 à Determinants: 4.6 Adjacent and Inverse of a Matrix Once students complete the last section they will get a clear picture of this portion and will be able to find the inverse of the matrix using adjacent. Make sure you go through the theorems and formulas to get an in-depth idea of the concept. NCERT Solutions for Class 12 Maths Chapter 4 à Determinants: 4.7: Application of Determinants of Matrices This section covers all the elaboration of the application of matrices, thus explaining the theme of solving the linear equation in two or three variables. This area also teaches the student about the consistency of the system of the linear equation. NCERT Solutions for Class 12 Maths Chapter 4 à Determinants: Theorems and Formulas to follow If two rows or two columns are identical or proportional, the value of the determinant is zero A square matrix A has an inverse if and only if A is a single non-singular solution of the equation  $AX = B$  is given by  $X = A^{-1}B$ , where A is a system of equations is consistent, then it has a solution If a system of equations is inconsistent, then there is no solution For a square matrix A in the matrix equation  $AX = B$  If  $|A| \neq 0$ , there is a unique solution If  $|A| = 0$  and  $(adj A)B \neq 0$ , then there is no solution If  $|A| = 0$  and  $(adj A)B = 0$ , then the system may or may not be consistent. Access Benefits of NCERT Class 12 Solutions Why should you choose NCERT Solutions for Class 12 Maths Chapter 4 à Determinants? You should always look out for benefits to go with something new. Let's find out: With Solutions for Class 12-Mate, you get an in-depth idea of the chapter that will help you finish the chapter very soon. The more you run through the content the better understanding you will gain regarding the chapter. Not only will it help you with the exam of the 12th pension, but it will help you to break competitive exams in the next few days. It gives you more time and efficiency to study hard and classify better. NCERT Maths Solutions would help students consolidate their understanding of mathematical topics. The teaching material is studied and curated by professionals to impart what best suits the students. We have noted all necessary updates for the next 12 tables. NCERT Solutions for Class 12 Mathematics-Chapter 4 "Determinants" is to help you with Chapter 4. We hope you do great things in your CBSE Finals. Besides, we're always here to help you. FAQ: NCERT Solutions for Class 12 Mathematics Chapter 4 In total, there are six exercises in Chapter 4 of Class 12 Mathematics. There are a total of 19 questions (15 Long, 1 Short, 3 MCQ) in the NCERT Mathematics Chapter 4 Miscellaneous Exercise. Thank you. Browse the blog above for an overview of the NCERT Solutions for Determinants Class 12 exercises. Thank you. NCERT Solutions for Class 12 Mathematics Chapter 4 deals with all the topics of determinants that are sufficient for exam preparation. You can download the NCERT Solutions of Mathematics Chapter 4 Class 12 from the blog above. Yes, the exercises NCERT Ch. 4 are dealt with by subject matter experts who are described in easily understandable language.

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