

Class 12 Maths Deleted Syllabus

Term - 1

1. Relations and Functions

composite functions, inverse of a function.

Exercise 1.3

Exercise 1.4

Miscellaneous Exercise - Q1, Q2, Q3, Q6, Q7, Q14, Q19

2. Inverse Trigonometric Functions

Graphs of inverse trigonometric functions Elementary properties of inverse trigonometric functions.

Exercise 2.2 - Q3, Q4, Q12, Q13, Q14, Q15, Q18

Miscellaneous Exercise - Q4-Q8, Q12-Q14, Q16, Q17

3. Matrices

existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations, proof of the uniqueness of inverse, if it exists.

Exercise 3.4

4. Determinants

properties of determinants, Consistency, inconsistency and number of solutions of system of linear equations by examples.

Exercise 4.2

Exercise 4.6 - Q1-Q6

Miscellaneous Exercise - Q2, Q11-Q15

5. Continuity and Differentiability

Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretation.

Exercise 5.8

Miscellaneous Exercise - Q19

6. Applications of Derivatives

rate of change of bodies, use of derivatives in approximation.

Exercise 6.1

Exercise 6.4

Miscellaneous Exercise - Q1, Q3, Q19

12. Linear Programming

mathematical formulation of L.P. problems, infeasible regions (unbounded).

Exercise 12.1 - Q4, Q6, Q9

Exercise 12.2

Miscellaneous Exercise

Term – 2

7. Integrals

Evaluation of simple integrals of the following types and problems based on them

$$\int \sqrt{ax^2 + bx + c} dx, \quad \int (px + q)\sqrt{ax^2 + bx + c} dx$$

Definite integrals as a limit of a sum.

Exercise 7.7 - Q3-Q7

Exercise 7.8

8. Applications of the Integrals

Area between any of the two curves (simple curves, especially lines, circles/parabolas/ellipses)

9. Differential Equations

Formation of differential equation whose general solution is given.

$dx/dy + px = q$, where p and q are functions of y or constants.

Exercise 9.3

Exercise 9.6 - Q11, Q12, Q19

Miscellaneous Exercise - Q3, Q5, Q17

10. Vectors

scalar triple product of vectors.

11. Three - dimensional Geometry

Angle between (i) two lines, (ii) two planes, (iii) a line and a plane.

Exercise 11.2 - Q10, Q11

Exercise 11.3 - Q12, Q13

Miscellaneous Exercise - Q3, Q5

13. Probability

mean and variance of random variable. Binomial probability distribution.

Exercise 13.4

Exercise 13.5

Miscellaneous Exercise - Q2, Q3