

JEE Main Mathematics Syllabus - Categorized (Basic to Advanced)

1. Foundation & Basics

1. Basic Mathematics and Logarithms
2. Sets
3. Relations and Functions
4. Trigonometric Ratios and Identities
5. Trigonometric Equations
6. Properties of Triangle
7. Height and Distances

2. Algebra

8. Quadratic Equations
9. Complex Numbers - Part 1
10. Complex Numbers - Part 2
11. Sequence and Series
12. Permutations and Combinations
13. Binomial Theorem
14. Matrices and Determinants
15. Linear Programming
16. Probability (Basic)
17. Probability (Advanced)

3. Coordinate Geometry

18. Straight Lines
19. Circles
20. Conic Sections - Parabola
21. Conic Sections - Ellipse
22. Conic Sections - Hyperbola

4. Calculus (Basic to Advanced)

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- 23. Limits and Derivatives
- 24. Limit, Continuity and Differentiability
- 25. Methods of Differentiation
- 26. Application of Derivatives
- 27. Indefinite Integration
- 28. Definite Integration
- 29. Application of Integrals
- 30. Differential Equations

5. Vectors & 3D Geometry

- 31. Vector Algebra
- 32. Introduction to Three Dimensional Geometry
- 33. Three Dimensional Geometry (Advanced)

6. Inverse and Special Functions

- 34. Inverse Trigonometric Functions

7. Statistics & Data Interpretation

- 35. Statistics