

[IIT-JEE MATHEMATICS]

JEE ADVANCED 2021 TO 2025

2026

TREND *Analysis*

CLASS 11 AND 12

MATHEMATICS

PRIORITY HIERARCHY

IN THIS ANALYSIS

PAPER MATHEMATICS
CHAPTERS RANKED TWENTY ONE
PHASES FOUR · PRIORITY A TO D
BASED ON 2021 TO 2025 PAPERS
CARRIES TREND · DEPTH · TICK SHEET
READ WITH THE JEE ADVANCED SYLLABUS

[JEE ADVANCED]

How to use this analysis

Advanced is not ranked by weightage the way Main is, because it does not divide its marks that evenly. It is ranked here by two things instead: how often a topic has been returning, and how deep the paper goes into it when it does.

The trend column is movement. A gold arrow means the topic has been asked more in recent papers, a grey one means less, a dash means it has held. The depth column is how far below the surface the questions sit, from medium to very high. A topic can be steady in frequency and still be very high in depth, and those are the ones that decide ranks.

The boxes on the right are a tick sheet: the Advanced previous year questions for that topic, then two revisions. Tick a box when you have worked the questions, not when you have read the theory.

Advanced rarely asks a chapter on its own. Treat the ranking as the order to reach mastery in, not as a list of separate topics to finish.

[PRIORITY HIERARCHY]

The trend *analysis*

PRIORITY A Calculus and high intensity algebra

MULTI-CONCEPT ADVANCED FOCUS	TREND	DEPTH	ADV-PYQ	REV 1	REV 2
Matrices & Det. (Cramer's Rule, Props)	▲	V. High	☐	☐	☐
Probability (Bayes, Conditional, Dist.)	▲	V. High	☐	☐	☐
Complex Numbers (Geometry & n-Roots)	▲	V. High	☐	☐	☐
AOD (Monotonicity, Max-Min, Tangents)	—	V. High	☐	☐	☐
Definite Integration (Prop & Walli's)	▼	High	☐	☐	☐
Vector Algebra & 3D Geometry	▼	High	☐	☐	☐
Functions (Mappings, Inverse, Periodic)	—	High	☐	☐	☐
Differential Equations (Linear/Exact)	—	High	☐	☐	☐

PRIORITY B Combinatorics and logical analysis

MULTI-CONCEPT ADVANCED FOCUS	TREND	DEPTH	ADV-PYQ	REV 1	REV 2
Permutations & Combinations (Grouping)	▲	High	☐	☐	☐
Binomial Theorem (Multi-term series)	—	High	☐	☐	☐
Sequences & Series (AGP, Telescopic)	▼	Med	☐	☐	☐
Circles (Orthogonality, Radical Axis)	—	High	☐	☐	☐
Parabola & Ellipse (Common Tangents)	▲	High	☐	☐	☐

PRIORITY C Coordinate geometry and supportive mastery

MULTI-CONCEPT ADVANCED FOCUS	TREND	DEPTH	ADV-PYQ	REV 1	REV 2
Hyperbola (Rectangular, Asymptotes)	—	High	☐	☐	☐
Area Under Curves (Symmetry Apps)	—	High	☐	☐	☐
Continuity & Differentiability	▼	Med	☐	☐	☐
Limits (Taylor Series, L'Hopital Apps)	—	Med	☐	☐	☐

PRIORITY D Analytical trigonometry

MULTI-CONCEPT ADVANCED FOCUS	TREND	DEPTH	ADV-PYQ	REV 1	REV 2
Solution of Triangles (SOT Properties)	▼	Med	☐	☐	☐
Trig Equations & Identities	▲	High	☐	☐	☐
Quadratic Equations (Loc. of Roots)	—	Med	☐	☐	☐
Straight Lines (Image, Orthocenter)	▼	Med	☐	☐	☐

ADVANCED MASTERY ANALYSIS · LEVEL 3

Concept inter-linking. Advanced rarely asks singular questions. Expect **Complex Numbers** mixed with **Geometry**, or **Calculus** with **Sequences**.

Precision over speed. Accuracy is the primary differentiator. Focus on handling 50% of the paper with 90% accuracy rather than rushing for full coverage.

The “Properties” pivot. Trend analysis shows a shift from formula application to the deep properties of Determinants and Conics.

High intensity algebra. Note the ▲ in Matrices and Probability. These are currently the high-yield “Rank-Savers”.

Disclaimer. The trends indicated (▲ and ▼) are based on a comparative analysis of JEE Advanced paper patterns from 2021 to 2025. These serve as a strategic guide; comprehensive syllabus coverage remains the safest route to a top-tier rank.

OFFICIAL ACADEMIC RELEASE

REF IITF-JEE-ADV-2026-FINAL-V3.0

STATUS LEVEL 3 VERIFIED AND COMPLETED

Ritesh Raj

IIT Delhi

Founder, IITian Forum

doMath · An IITian Forum initiative

Want more practice? Hundreds more graded problems, solved step by step.**Practice with doMath** →