

# NDA-I 2026 Mathematics Preparation: Important Chapters and Shortcuts

## Introduction

Mathematics in the **NDA-I 2026 Exam** is one of the most scoring sections, carrying **300 marks** out of 900 in the written test. With 120 questions to be solved in just 2.5 hours, NDA aspirants must have **concept clarity, time management skills, and problem-solving shortcuts** to maximize their score.

In this article, we cover:

- **Important chapters for NDA Mathematics 2026**
- **Shortcuts and tricks for faster solving**
- **Best preparation strategy**
- **How Victor Growth Coaching helps you master NDA Maths**

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## NDA-I 2026 Mathematics Exam Overview

- **Total Questions:** 120
- **Total Marks:** 300
- **Duration:** 2.5 hours
- **Negative Marking:** -0.83 marks per wrong answer

☐☐ To clear the cut-off, aspirants should aim to score at least **120+ marks** in Mathematics (40% accuracy with smart attempts).

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## Important Chapters for NDA Mathematics Preparation

Here's a **priority list of chapters** based on their weightage and frequency in NDA papers:

### 1. Algebra

- Quadratic equations, arithmetic & geometric progressions.
- Sets, relations, and functions.
- Complex numbers & linear equations.

□ *Shortcut:* Remember quadratic identities and use factorization tricks.

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## 2. Trigonometry

- Trigonometric identities & equations.
- Heights and distances.
- Inverse trigonometric functions.

□ *Shortcut:* Convert all trig functions into **sin & cos** form for easier solving.

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## 3. Matrices and Determinants

- Matrix operations, inverse, adjoint.
- Solving simultaneous equations.

□ *Shortcut:* For  $2 \times 2$  determinant, use **ad - bc** method. For  $3 \times 3$ , apply diagonal method.

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## 4. Analytical Geometry (2D & 3D)

- Straight lines, circles, parabola, ellipse, hyperbola.
- Distance, slope, mid-point, equation of line.
- 3D: Distance between two points, direction cosines.

□ *Shortcut:* Use slope formula  $m = \frac{y_2 - y_1}{x_2 - x_1}$  to save time.

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## 5. Differential Calculus

- Limits, continuity, differentiation.
- Applications: maxima, minima, tangents & normals.

□ *Shortcut:* Use derivative rules directly (product rule, chain rule) instead of expanding.

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## 6. Integral Calculus & Differential Equations

- Integration as inverse of differentiation.
- Basic integrals & substitution method.

- Differential equations of first order.

□ *Shortcut:* For standard integrals, memorize a **formula sheet** ( $\int \sin x$ ,  $\int \cos x$ ,  $\int e^x$ , etc.).

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## 7. Vector Algebra

- Dot product & cross product.
- Applications in geometry.

□ *Shortcut:* Cross product result is always **perpendicular to both vectors**.

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## 8. Statistics & Probability

- Mean, median, mode, standard deviation.
- Basic probability rules, conditional probability.

□ *Shortcut:* Use complement rule:  $P(A) = 1 - P(A')$   $P(A) = 1 - P(A')$ .

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## Shortcuts & Tricks to Save Time in NDA Maths

### 1. Memorize Formulas & Identities

- Keep a **formula notebook** handy for last-minute revision.

### 2. Skip Lengthy Questions First

- Solve easy questions quickly, then attempt moderate ones, leave tricky ones last.

### 3. Use Approximation & Elimination

- In MCQs, eliminate wrong options quickly by substituting values.

### 4. Work with Speed + Accuracy

- Use **mental maths tricks** for squares, cubes, and tables up to 25.

### 5. Time Management Rule - 3 Rounds

- Round 1: Attempt sure-shot easy questions.
- Round 2: Attempt medium difficulty questions.
- Round 3: Attempt tough questions only if time permits.

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## 3-Month NDA Mathematics Study Plan

### Month 1 - Foundation

- Revise NCERT Class 11 & 12 Maths basics.
- Focus on Algebra, Trigonometry, Geometry.

### Month 2 - Practice

- Solve topic-wise PYQs (Previous Year Questions).
- Start sectional tests weekly.

### Month 3 - Exam Simulation

- Take **full-length NDA mock tests** (at least 10 before exam).
- Revise formulas, notes, and weak topics.

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## Why Choose Victor Growth Coaching for NDA-I 2026 Mathematics?

At **Victor Growth Coaching**, we make NDA Mathematics preparation **simpler and more effective**:

- **Expert Faculty** with Defence coaching experience.
- **Topic-wise Classes** covering all NDA Maths chapters in detail.
- **Shortcut Methods** taught for faster problem solving.
- **Exclusive Test Series** matching UPSC's difficulty level.
- **Doubt-clearing Sessions** for personal mentorship.
- **Printed Study Materials** with formula sheets & practice sets.
- **Affordable Fee Structure** so every aspirant can access quality coaching.

☐☐ With Victor Growth, you not only **master Mathematics** but also gain **confidence for the entire NDA exam**.

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## SEO Keywords

- NDA-I 2026 Mathematics preparation
- NDA 2026 important chapters in Maths
- NDA maths shortcuts and tricks
- Best NDA coaching in Kerala
- Victor Growth NDA preparation

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## FAQs on NDA-I 2026 Mathematics Preparation

### Q1. Which are the most important chapters for NDA Maths 2026?

Algebra, Trigonometry, Calculus, Geometry, Matrices, and Probability are the highest-weightage topics.

### Q2. Can I clear NDA Maths without coaching?

Self-study with NCERT + PYQs helps, but coaching provides shortcuts, speed strategies, and mock practice.

### Q3. How many marks are needed to clear NDA Maths cut-off?

Around **120+ marks** (40% approx.) is a safe score to qualify.

### Q4. Are NCERT books enough for NDA Maths?

Yes, NCERT is the base. But practice from additional books and test series is necessary.

### Q5. Does Victor Growth provide NDA Maths-specific classes?

Yes. Victor Growth conducts dedicated NDA Maths sessions, shortcut workshops, and test series.

### Q6. How to manage time in NDA Maths exam?

Solve easy questions first, skip lengthy ones, and manage in **3 rounds** of attempt.

### Q7. How many mock tests should I attempt before NDA-I 2026?

At least **10-15 full-length tests** along with sectional practice.

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