The Practise Ground

Class 12 Maths

Matrices & Determinants

The rules you use in every problem

1

$|A| = ad - bc$

Determinant of a 2×2 matrix

Rows of A are (a, b) and (c, d)

2

$A^{-1} = \text{adj } A / |A|$

Inverse of a matrix

Exists only when |A| is not 0

3

$(AB)' = B'A'$

Transpose of a product

The order reverses

4

$AB \neq BA$

Multiplication is not commutative

Columns of A must equal rows of B

Remember

|AB| = |A| × |B|.

For an n × n matrix, |kA| = k^n × |A|.

Quick example

A has rows (2, 3) and (1, 4).

|A| = 2×4 − 3×1 = 5

A inverse = (1/5) × rows (4, −3) and (−1, 2)

Think you've got it? Test yourself.

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