

EXAM-DAY · 90-MIN REVISION CARD

Coordinate Geometry

Print this · Fold it · Carry to the exam-hall gate · Revise once · Then walk in.

FORMULAS & KEY RESULTS

Cartesian plane = two perpendicular number lines meeting at origin O

x-axis: horizontal number line; y-axis: vertical number line

Origin O = (0, 0); does not belong to any quadrant

Ordered pair (x, y): abscissa first, ordinate second

Abscissa = x-coordinate (horizontal distance from y-axis)

Ordinate = y-coordinate (vertical distance from x-axis)

Quadrant I: (+, +) — top right

Quadrant II: (-, +) — top left

Quadrant III: (-, -) — bottom left

Quadrant IV: (+, -) — bottom right

Point on x-axis: y-coordinate is 0, written (a, 0)

Point on y-axis: x-coordinate is 0, written (0, b)

Quadrants numbered ANTICLOCKWISE starting from top right

TOP 5 PYQ PATTERNS

- 1 Identify the quadrant from given coordinates**
1 mark · 90% of years
Match signs of (x, y) to the four-quadrant sign chart.
- 2 Plot four points and name the figure formed**
2 marks · 80% of years
Plot accurately, then check side lengths and angles to name shape.
- 3 Read coordinates of a given plotted point**
1 mark · 60% of years
Drop perpendiculars to each axis; read with correct sign.
- 4 Write coordinates of a point on an axis**
1 mark · 50% of years
Axis rule: x-axis means y=0; y-axis means x=0.
- 5 Mirror image / reflection of a point**
2 marks · 30% of years
Reflection in x-axis flips sign of y; in y-axis flips sign of x.

90-MIN REVISION FLOW

0-10 min

Re-draw the Cartesian plane from memory with quadrants and sign chart.

10-25 min

Drill 10 'identify the quadrant' MCQs from any point with mixed signs.

25-45 min

Plot 3 sets of 4 points and name the resulting figure (square / rectangle / trapezium).

45-60 min

Practise reading coordinates from a printed figure; verify by re-plotting.

60-75 min

Solve 5 PYQ items mixing axis questions, quadrant questions, and figure-naming.

75-90 min

Attempt a timed 10-mark mock; circle every silly sign or swap error.

Confidence, not anxiety. You've practised this all year. Trust your steps. Don't change strategy on exam morning.
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