

PRINCIPAL SAAB
Periodic Assessment 1 (PA-1) — Sample Paper
Class IX | Mathematics (041) | Periodic Assessment 1 | Session 2026-27

Time: 40 minutes | Maximum Marks: 25 | Question Paper

This is the third PA-1 practice paper for Class 9 Maths, based on the new syllabus (Ganita Manjari Part 1, 2026-27): Chapter 1 (Orienting Yourself: The Use of Coordinates) and Chapter 2 (Introduction to Linear Polynomials). Note: the whole Class 9 Maths textbook has changed this year, so this paper covers only the first 2 chapters (the later chapters are not part of it yet). Periodic Assessment pattern — school pattern se thoda alag ho sakta hai. Every question carries its chapter tag, either [Ch 1] or [Ch 2].

General Instructions

- Time: 40 minutes | Maximum Marks: 25
- Chapter coverage: Ch 1 Orienting Yourself: The Use of Coordinates, Ch 2 Introduction to Linear Polynomials (Ganita Manjari Part 1, new 2026-27 textbook).
- Four sections — A (5 × 1 mark), B (4 × 2 marks), C (3 × 3 marks), D (1 case-study of 3 marks).
- All questions are compulsory. There is no internal choice.

Section A — Multiple Choice Questions (5 × 1 = 5 marks)

- Q1. [Ch 1] In which quadrant does the point $(-5, -8)$ lie? (A) I (B) II (C) III (D) IV
- Q2. [Ch 1] Where does the point $(0, 7)$ lie? (A) On the x-axis (B) On the y-axis (C) At the origin (D) None of these
- Q3. [Ch 1] What do you get when the point $(3, -9)$ is reflected in the y-axis? (A) $(3, 9)$ (B) $(-3, -9)$ (C) $(-3, 9)$ (D) $(3, -9)$
- Q4. [Ch 2] What is the degree of the polynomial $p(x) = 7x - 2$? (A) 0 (B) 1 (C) 2 (D) 7
- Q5. [Ch 2] Which one of the following is a linear polynomial? (A) $x^2 + 1$ (B) 5 (C) $3x - 8$ (D) x^3

Section B — Very Short Answer (4 × 2 = 8 marks)

- Q6. [Ch 1] In which quadrant does the point $(-2, 5)$ lie? What do you get when it is reflected in the x-axis?
- Q7. [Ch 1] The abscissa of a point P is $(a - 2)$ and its ordinate is $(2a + 1)$. If P lies on the y-axis, find the value of a and the coordinates of P.
- Q8. [Ch 2] Find the zero of the polynomial $p(x) = 9x - 27$.
- Q9. [Ch 2] A taxi charges a fixed fee of ₹50 plus ₹15 extra for every kilometre. (i) Write the linear polynomial for the fare y of a journey of x km. (ii) Find the fare for 8 km.

Section C — Short Answer (3 × 3 = 9 marks)

- Q10. [Ch 1] First reflect the point $P(-6, 4)$ in the x-axis, then reflect that new point in the y-axis. State the coordinates of the final point Q and the quadrant in which it lies.
- Q11. [Ch 2] The height of a plant is given by $h(x) = 2x + 10$ (in cm), where x is the number of weeks. (i) What was the height at the start ($x = 0$)? (ii) After how many weeks will the height become 30 cm? (iii) Will the height ever be exactly 25 cm at the end of a whole week? Give a reason.
- Q12. [Ch 2] $p(x) = (2k - 3)x + 5$ is a linear polynomial provided k does not take one particular value. Which value is that? In that case, write the zero of $p(x)$ in terms of k.

Section D — Case Study / Application (1 × 3 = 3 marks)

- Q13. [Ch 1 + Ch 2] Aman is walking along a straight path. His position on the coordinate plane is represented by (x, y) , and his path is modelled by the polynomial: $y = 2x + 1$ (here x is the horizontal distance from his home, taken as positive).
- (i) When $x = 3$, what is his y-coordinate? In which quadrant does this point lie? (1)
 - (ii) Find the zero of this polynomial (the value of x for which $y = 0$). (1)
 - (iii) If the point at $x = 3$ is reflected in the x-axis, what is the new y-coordinate? (1)

Apna Score Kaise Padhein

- 20-25: both chapters are strong.
- 14-19: you need more practice with reflections or with finding zeroes.
- Below 13: read the chapter notes again, then attempt this paper once more after 3 days.

Chapter notes are here: Chapter 1 — Coordinates and Chapter 2 — Linear Polynomials. More practice papers are here: Unit Test & Practice Paper Hub.

Kaizen: today, solve just that one question you got wrong — without looking at the answer. One small improvement every day, and the difference will be clear by PA-1.