

PA-1 Sample Paper — Class 9 Maths 2026-27 (Ch 1-2)

Question Paper — PA-1 2026-27

PA-1 ka teesra paper Class 9 Maths ke naye syllabus (Ganita Manjari Part 1, 2026-27) par: Chapter 1 (Orienting Yourself: The Use of Coordinates) aur Chapter 2 (Introduction to Linear Polynomials). Note: is saal Class 9 Maths ki poori textbook badal gayi hai, isliye yeh paper sirf pehle 2 chapters cover karta hai (aage ke chapters abhi content mein nahi hain).

Periodic Assessment pattern — school pattern se thoda alag ho sakta hai. Har question ke saath uska chapter tag [Ch 1] ya [Ch 2] diya hai.

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 compulsory hain. Internal choice nahi hai.

Section A — Multiple Choice Questions ($5 \times 1 = 5$ marks)

- Q1. [Ch 1] Point $(-5, -8)$ kis quadrant mein hai?
(A) I (B) II (C) III (D) IV
- Q2. [Ch 1] Point $(0, 7)$ kahaan hai?
(A) x-axis par (B) y-axis par (C) origin par (D) inmein se koi nahi
- Q3. [Ch 1] Point $(3, -9)$ ko y-axis mein reflect karne par kya milega?
(A) $(3, 9)$ (B) $(-3, -9)$ (C) $(-3, 9)$ (D) $(3, -9)$
- Q4. [Ch 2] Polynomial $p(x) = 7x - 2$ ki degree kya hai?
(A) 0 (B) 1 (C) 2 (D) 7
- Q5. [Ch 2] Inmein se kaunsa ek linear polynomial hai?
(A) $x^2 + 1$ (B) 5 (C) $3x - 8$ (D) x^3

Section B — Very Short Answer ($4 \times 2 = 8$ marks)

- Q6. [Ch 1] Point $(-2, 5)$ kis quadrant mein hai? Ise x-axis mein reflect karne par kya milega?
- Q7. [Ch 1] Point P ki abscissa $(a - 2)$ aur ordinate $(2a + 1)$ hai. Agar P y-axis par hai, to a ka maan aur P ke coordinates nikaliye.
- Q8. [Ch 2] Polynomial $p(x) = 9x - 27$ ka zero nikaliye.
- Q9. [Ch 2] Ek taxi ka fixed charge ₹50 hai aur har km ke liye ₹15 extra lagte hain. (i) x km ke liye fare y ka linear polynomial likhiye. (ii) 8 km ke liye fare nikaliye.

Section C — Short Answer ($3 \times 3 = 9$ marks)

- Q10. [Ch 1] Point P $(-6, 4)$ ko pehle x-axis mein reflect kijiye, phir us naye point ko y-axis mein reflect kijiye. Final point Q ke coordinates aur uska quadrant bataiye.
- Q11. [Ch 2] Ek paudhe (plant) ki height $h(x) = 2x + 10$ (cm) se di gayi hai, jahan x hafton ki sankhya hai. (i) Shuru mein ($x = 0$) height kya thi? (ii) Kitne hafton mein height 30 cm ho jaayegi? (iii) Kya height kabhi poore hafte par 25 cm hogi? Reason dijiye.
- Q12. [Ch 2] $p(x) = (2k - 3)x + 5$ ek linear polynomial hai basharte k ka kaunsa maan na ho? Us case

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mein $p(x)$ ka zero k ke terms mein likhiye.**Section D — Case Study / Application ($1 \times 3 = 3$ marks)**

Q13. [Ch 1 + Ch 2] Aman ek seedhe raste (straight path) par chal raha hai. Uski position ko coordinate plane par (x, y) se represent kiya jaata hai, jahan uska path is polynomial se model hota hai: $y = 2x + 1$ (x = ghar se horizontal distance, positive maana gaya hai).

- (i) Jab $x = 3$, uska y -coordinate kya hoga? Yeh point kis quadrant mein hai? (1)
- (ii) Is polynomial ka zero (woh x jahan $y = 0$ hota hai) nikaliye. (1)
- (iii) Agar $x = 3$ wale point ko x -axis mein reflect kar diya jaaye, to naya y -coordinate kya hoga? (1)