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JEE MAIN STRAIGHT LINES — VARIOUS FORMS OF THE EQUATION OF A LINE — PYQS

Max. Marks: 12 **Questions:** 3

Section A (MCQ) — 3 questions

Q.1 Let the angles made with the positive x-axis by two straight lines drawn from the point P(2, 3) and meeting the line x + y = 6 at a distance $\sqrt{\frac{2}{3}}$ from the point P be θ_1 and θ_2. Then the value of $(\theta_1 + \theta_2)$ is: [JEE Main 2026 (Online) 24th January Evening Shift]

(1) $\frac{\pi}{2}$ (2) $\frac{\pi}{3}$ (3) $\frac{\pi}{12}$ (4) $\frac{\pi}{6}$

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Q.2 Let A(1, 2) and C(−3, − 6) be two diagonally opposite vertices of a rhombus, whose sides AD and BC are parallel to the line 7x − y = 14. If B(α, β) and D(γ, δ) are the other two vertices, then |α + β + γ + δ| is equal to : [JEE Main 2026 (Online) 23rd January Evening Shift]

(1) 3 (2) 6 (3) 1 (4) 9

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Q.3 Let the area of the triangle formed by a straight line L:x + by + c = 0 with co-ordinate axes be 48 square units. If the perpendicular drawn from the origin to the line L makes an angle of 45° with the positive x-axis, then the value of $b^2 + c^2$ is : [JEE Main 2025 (Online) 2nd April Evening Shift]

(1) 90 (2) 83 (3) 93 (4) 97

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ANSWER KEY

Ques.	1	2	3								
Ans.	**1**	**2**	**4**								