

**JEE MAIN THREE DIMENSIONAL GEOMETRY — DIRECTION COSINES
AND DIRECTION RATIOS OF A LINE — PYQS**

Max. Marks: 4

Questions: 1

Section A (MCQ) — 1 question

- Q.1** Each of the angles β and γ that a given line makes with the positive y- and z-axes, respectively, is half of the angle that this line makes with the positive x-axis. Then the sum of all possible values of the angle β is

[JEE Main 2025 (Online) 3rd April Evening Shift]

- (1) $\frac{\pi}{2}$ (2) π (3) $\frac{3\pi}{4}$ (4) $\frac{3\pi}{2}$

Scan or tap for the
full solution**ANSWER KEY**

Ques.	1											
Ans.	3											