

JEE MAIN APPLICATION OF INTEGRALS — AREA UNDER SIMPLE CURVES — PYQS

Max. Marks: 8
Questions: 2

Section B (Numerical) — 2 questions

- Q.1** Let the area of the region bounded by the curve $y = \max\{\sin x, \cos x\}$, lines $x = 0$, $x = \frac{3\pi}{2}$, and the x -axis be A . Then, $A + A^2$ is equal to _____.

[JEE Main 2026 (Online) 23rd January Morning Shift]

Scan or tap for the
full solution



- Q.2** The area of the region bounded by the curve $y = \max\{|x|, |x-2|\}$, the x -axis and the lines $x = -2$ and $x = 4$ is equal to _____.

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

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ANSWER KEY

Ques.	1	2										
Ans.	12	12										