

JEE MAIN DIFFERENTIAL EQUATIONS — EXACT AND BERNOULLI'S EQUATIONS (JEE) — PYQS

Max. Marks: 4
Questions: 1

Section A (MCQ) — 1 question

- Q.1** Let $y = y(x)$ be the solution curve of the differential equation $x(x^2 + e^x)dy + (e^x(x - 2)y - x^3)dx = 0$, $x > 0$, passing through the point $(1, 0)$. Then $y(2)$ is equal to :

[JEE Main 2025 (Online) 7th April Morning Shift]

- (1) $\frac{2}{2+e^2}$ (2) $\frac{4}{4-e^2}$ (3) $\frac{4}{4+e^2}$ (4) $\frac{2}{2-e^2}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1																			
Ans.	3																			