

JEE MAIN DIFFERENTIAL EQUATIONS — GENERAL AND PARTICULAR SOLUTIONS — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 1 question

Q.1 Let $f(x)$ and $g(x)$ be twice differentiable functions satisfying $f''(x) = g''(x)$ for all $x \in \mathbb{R}$, $f'(1) = 2g'(1) = 4$ and $g(2) = 3f(2) = 9$. Then $f(25) - g(25)$ is equal to :

[JEE Main 2026 (Online) 5th April Evening Shift]

- (1) 20 (2) 40 (3) -20 (4) -40

Scan or tap for the full solution



Section B (Numerical) — 1 question

Q.2 Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a thrice differentiable odd function satisfying $f'(x) \geq 0$, $f''(x) = f(x)$, $f(0) = 0$, $f'(0) = 3$. Then $9f(\log_e 3)$ is equal to _____.

[JEE Main 2025 (Online) 2nd April Morning Shift]

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ANSWER KEY

Section A (MCQ) — 1 question

Ques.	1								
Ans.	2								

Section B (Numerical) — 1 question

[illegible]