

JEE MAIN RELATIONS AND FUNCTIONS — ALGEBRA OF REAL FUNCTIONS — PYQS

Max. Marks: 4
Questions: 1

Section A (MCQ) — 1 question

Q.1 Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function defined by

$$f(x) = (2 + 3a)x^2 + \left(\frac{a+2}{a-1}\right)x + b, \quad a \neq 1. \text{ If}$$

$$f(x+y) = f(x) + f(y) + 1 - \frac{2}{7}xy, \text{ then the value of}$$

$$28 \sum_{i=1}^5 |f(i)| \text{ is}$$

[JEE Main 2025 (Online) 28th January Morning Shift]

- (1) 735 (2) 675 (3) 715 (4) 545

Scan or tap for the full solution



ANSWER KEY

Ques.	1										
Ans.	2										