

JEE MAIN ELECTROSTATIC POTENTIAL AND CAPACITANCE — EQUIPOTENTIAL SURFACES — PYQS

Max. Marks: 4
Questions: 1

Section A (MCQ) — 1 question

Q.1 Three infinitely long wires with linear charge density λ are placed along the x-axis, y-axis and z-axis respectively. Which of the following denotes an equipotential surface?

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

(1) $(x^2 + y^2)(y^2 + z^2)(z^2 + x^2) = \text{constant}$

(2) $xyz = \text{constant}$

(3) $xy + yz + zx = \text{constant}$

(4) $(x + y)(y + z)(z + x) = \text{constant}$

Scan or tap for the
full solution



ANSWER KEY

Ques.	1										
Ans.	1										