



MATHS

BOOKS - RESONANCE DPP ENGLISH

THREE DIMENSIONAL GEOMETRY

Others

1. The equation of the acute angle bisector of planes $2x - y + z - 2 = 0$ and $x + 2y - z - 3 = 0$ is $x - 3y + 2z + 1 = 0$ (b) $3x + 3y - 2z + 1 = 0$ $x + 3y - 2z + 1 = 0$ (d) $3x + y = 5$



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2. The equation of the plane passing through the point $(1, 1, -1)$ and perpendicular to the planes $x + 2y + 3z - 7 = 0$ and $2x - 3y + 4z = 0$

is (a) $17x + 2y - 7z = 26$ (b) $17x - 2y + 7z = 26$ (c)

$17x + 2y - 7z + 26 = 0$ (d) $17x - 2y + 7z + 26 = 0$

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3. ABC is a triangle where $A = (2, 3, 5)$, $B = (-1, 2, 2)$ and $C(\lambda, 5\mu)$, if the median through A is equally inclined to the axes then: $\lambda = \mu = 5$ (b)

$\lambda = 5, \mu = 7$ $\lambda = 6, \mu = 9$ (d) $\lambda = 0, \mu = 0$

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4. Find the acute angle between the lines

$\frac{x-1}{l} = \frac{y+1}{m} = \frac{1}{n}$ and $\frac{x+1}{m} = \frac{y-3}{n} = \frac{z-1}{l}$ where $l > m > n$,

are the roots of the cubic equation $x^3 + x^2 - 4x = 4$.

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5. The image of plane $2x - y + z = 2$ in the plane mirror $x + 2y - z = 3$ is (a) $x + 7y - 4z + 5 = 0$ (b) $3x + 4y - 5z + 9 = 0$ (c) $7x - y + 2z - 9 = 0$ (d) None of these



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