

$$= \text{Rf} = \text{Range } (f) = \left| \frac{1}{3} \right|$$

Section-5

Ans-1

$$my + nz = 0 \quad \text{--- (1)}$$

$$hz + dx = 0 \quad \text{--- (2)}$$

$$dx + my + nz = p \quad \text{--- (3)}$$

$$A = (0/m, 0/n)$$

$$B = (0/n, 0/d)$$

$$C = (p/d, p/m, p/n)$$

I think the coordinates A, B, C form a triangle at the base of the tetrahedron

$$AB = \left[-0m/n, -0p/n \right]$$

$$AC = \left[0, 0p/m, -0p/n \right]$$

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The area of base is given by the length of the cross product: $AB \times AC$
The problem is how to find the height of

$$P: lx + my + nz = p$$

l, m, n are DCS of normal vector of Plane

p : distance of Plane from origin

$$\sqrt{l^2 + m^2 + n^2} = 1$$

$$l^2 + m^2 + n^2 = 1$$