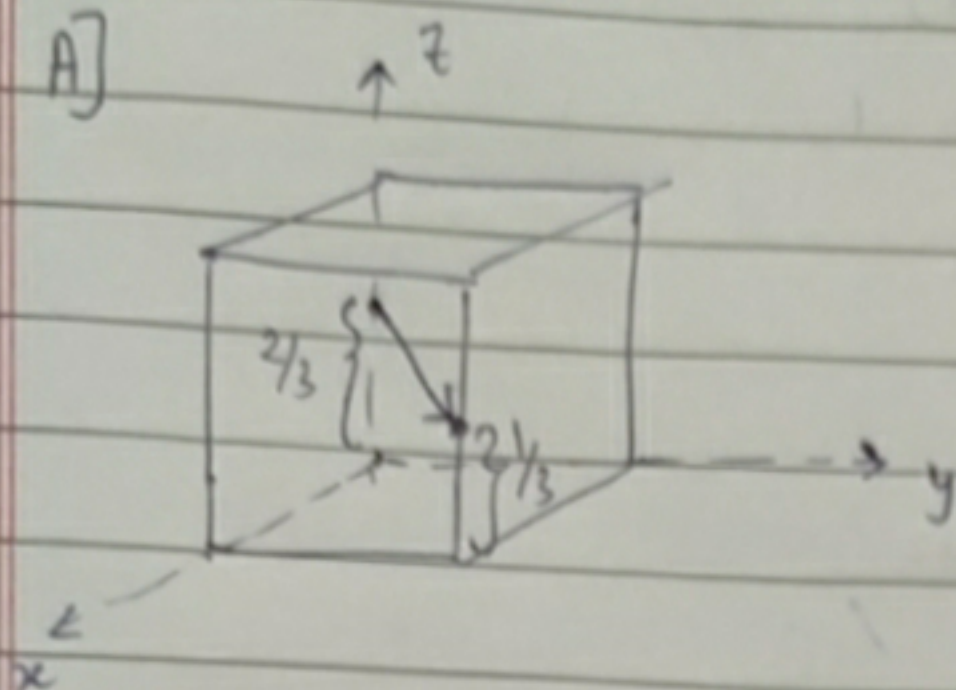


Assignment 6 - ME 221 S2

1. A]

Projections on x, y, z axes are

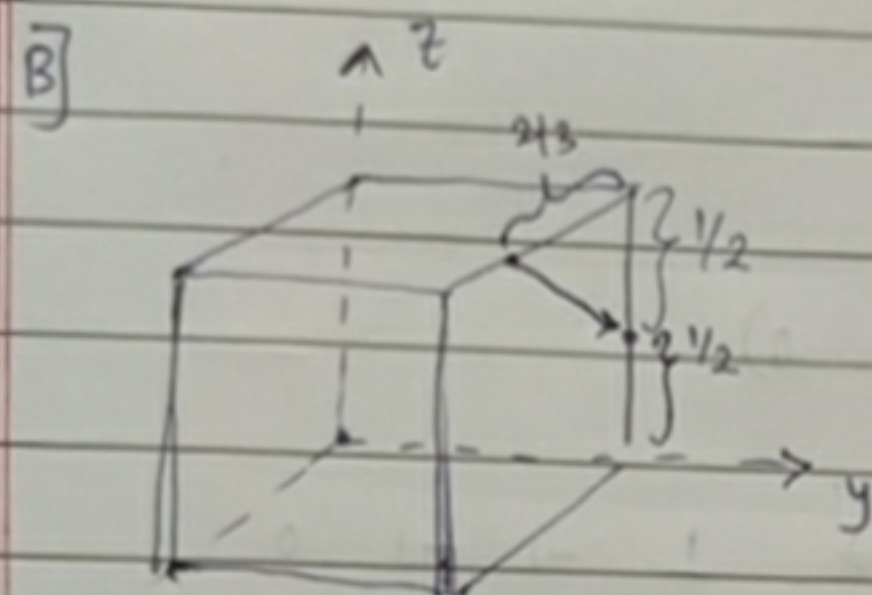
$$a, b, -\frac{c}{3}$$

$$\Rightarrow 1, 1, -\frac{1}{3}$$

$$A \equiv [3 \ 3 \ \bar{1}]$$

$$\Rightarrow [3, 3, -1]$$

B]

Projections on x, y, z axes are

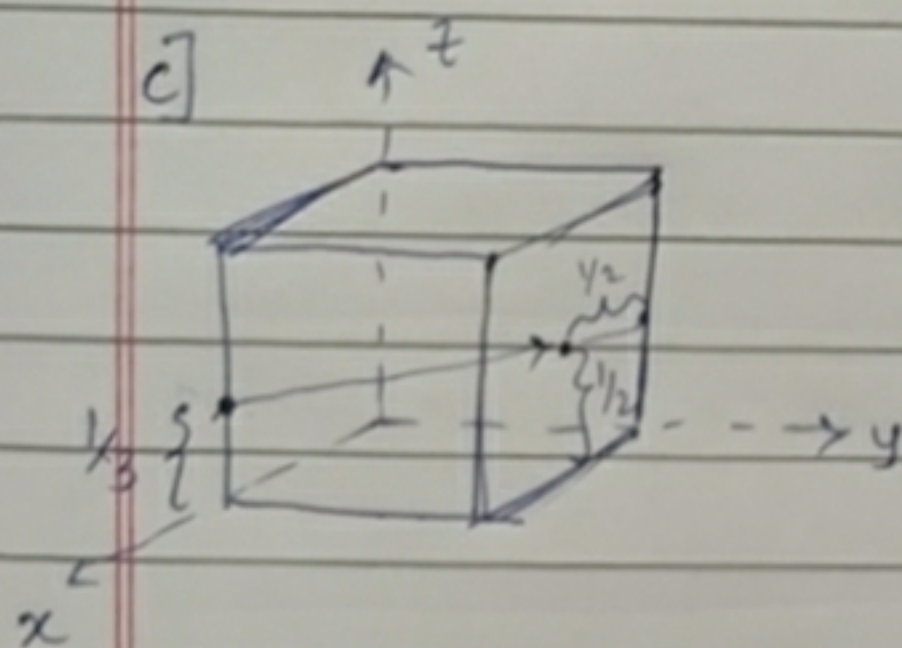
$$-\frac{2a}{3}, 0, -\frac{c}{2}$$

$$\Rightarrow -\frac{2}{3}, 0, -\frac{1}{2}$$

$$\Rightarrow -4, 0, -3$$

$$B \equiv [\bar{4} \ 0 \ \bar{3}]$$

C]

Projections on x, y, z axes are

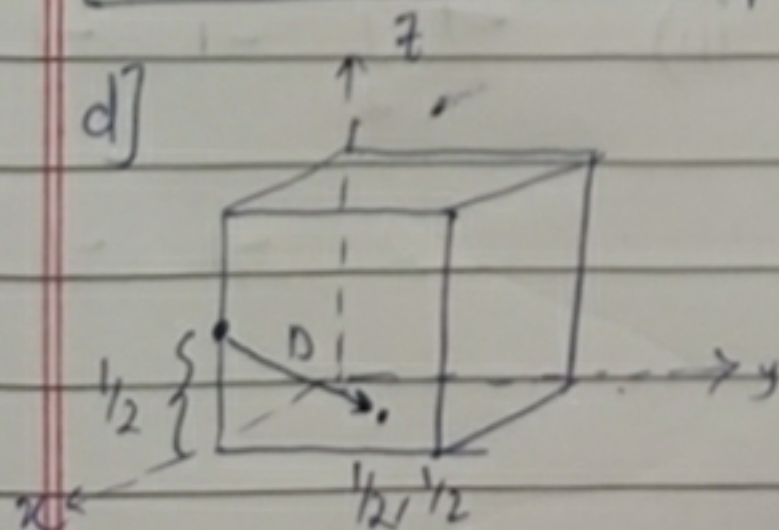
$$-\frac{a}{2}, b, c\left(\frac{1}{2} - \frac{1}{3}\right) = \frac{c}{6}$$

$$\Rightarrow -\frac{1}{2}, 1, \frac{1}{6}$$

$$\Rightarrow -3 \ 6 \ 1$$

$$C \equiv [\bar{3} \ 6 \ 1]$$

d]

Projections on x, y, z axes are

$$-\frac{a}{2}, \frac{b}{2}, -\frac{c}{2}$$

$$\Rightarrow -\frac{1}{2}, \frac{1}{2}, -\frac{1}{2} \Rightarrow -1, 1, -1$$

$$D \equiv [\bar{1} \ 1 \ \bar{1}]$$