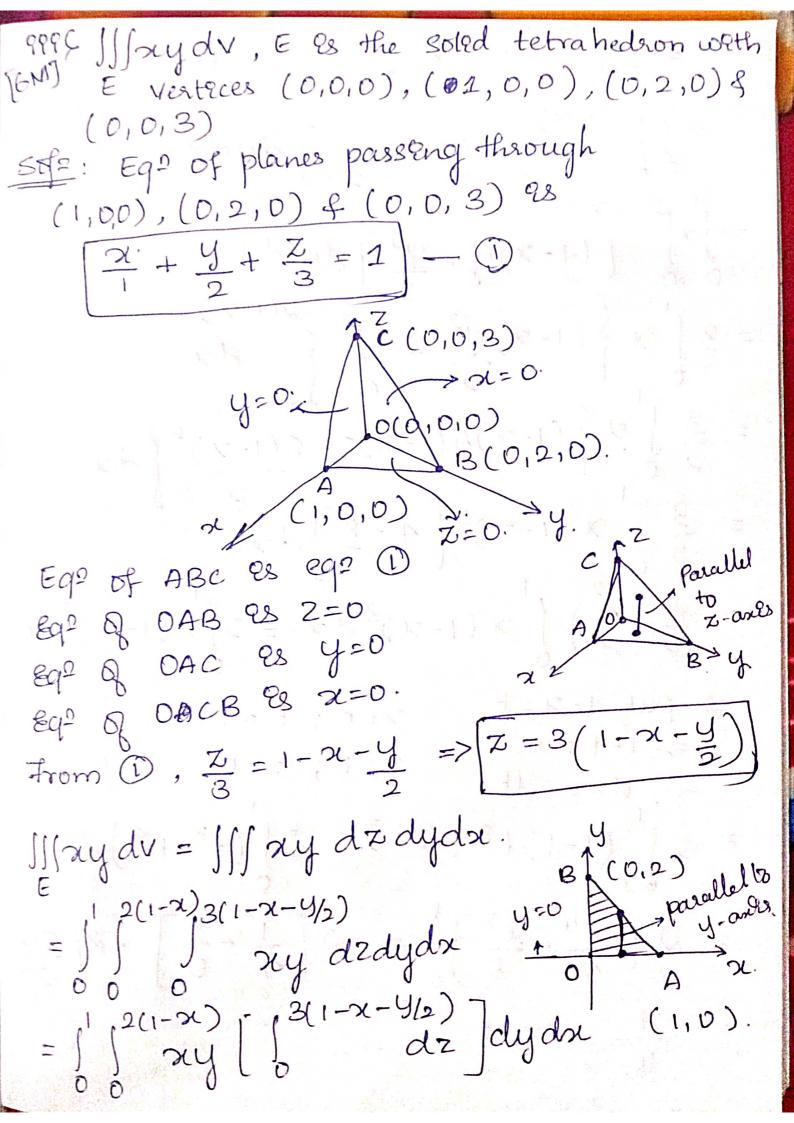
$$T = \frac{1}{2} \left[e^{4} \right]_{0}^{3} \left[2 - \frac{2}{3} \right]_{0}^{3} = \frac{1}{2} \left[e^{3} - e^{0} \right] \left[1 - \frac{1}{2} \right]_{0}^{3}$$

$$T = \frac{1}{2} \left[e^{3} \right]_{0}^{3} = \frac{1}{3} \left(e^{3} - 1 \right)_{0}^{3} = \frac{1}{3} \left(e^{3} - 1 \right)_{0}^{3}$$

Note:
$$\int xe^{-x^2} dx = \frac{e^{-x^2}}{-x^2}$$

$$\begin{cases} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_$$



$$= \int_{0}^{1} \int_{0}^{2(1-x)} xy \left[\frac{x}{3} \right]_{0}^{3(1-x-y/2)} dy dx.$$

$$= \int_{0}^{1} \int_{0}^{2(1-x)} xy \left[3 \left[1-x-y \right] \right] dy dx.$$

$$= 3 \int_{0}^{1} x \left\{ (1-x)y - \frac{y^{2}}{2} \right] dy dx.$$

$$= 3 \int_{0}^{1} x \left\{ (1-x)y^{2} - \frac{y^{3}}{6} \right\} dx.$$

$$= \frac{3}{2} \int_{0}^{1} x \left\{ (1-x)4(1-x)^{2} - 8(1-x)^{3} \right\} dx.$$

$$= \frac{3}{2} \int_{0}^{1} x \left(1-x \right)^{3} \left[4-\frac{8}{3} \right] dx.$$

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$$= \frac{3}{2} \int_{0}^{1} x \left(1-x$$