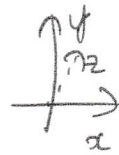


is this a view from the bottom?



difficult to follow

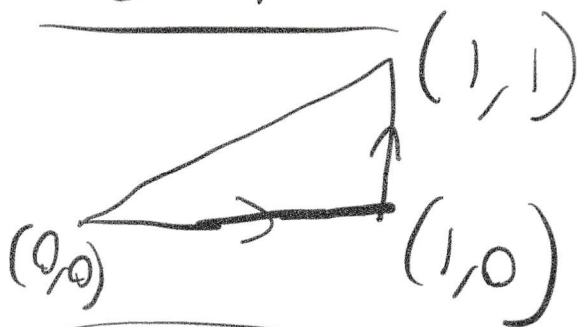


$$A_{yz} = \frac{1}{2} \times 2 \times 1 = 1$$

$$\hat{n}_{yz} = \hat{i}$$

$$\vec{A}_{yz} = -\hat{i}$$

zx plane



$$A_{zx} = \frac{1}{2} \times 1 \times 1 = \frac{1}{2}$$

$$\hat{n}_{zx} = \hat{j}$$

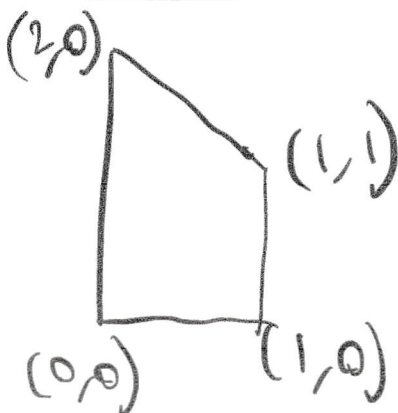
$$\therefore \vec{A}_{zx} = -\frac{1}{2} \hat{j}$$

beware of your drawings

→ correct axes  $\hat{x}, \hat{y}, \hat{z}$

→ sense

xy plane



$$A_{xy} = \frac{1}{2} (1+2) (1) = \frac{3}{2}$$

$$\hat{n}_{xy} = \hat{k}$$

$$\therefore \vec{A}_{xy} = \frac{3}{2} \hat{k}$$

$$\therefore \vec{\Sigma} = \vec{A}_{yz} + \vec{A}_{zx} + \vec{A}_{xy} = -\hat{i} - \frac{1}{2} \hat{j} + \frac{3}{2} \hat{k}$$