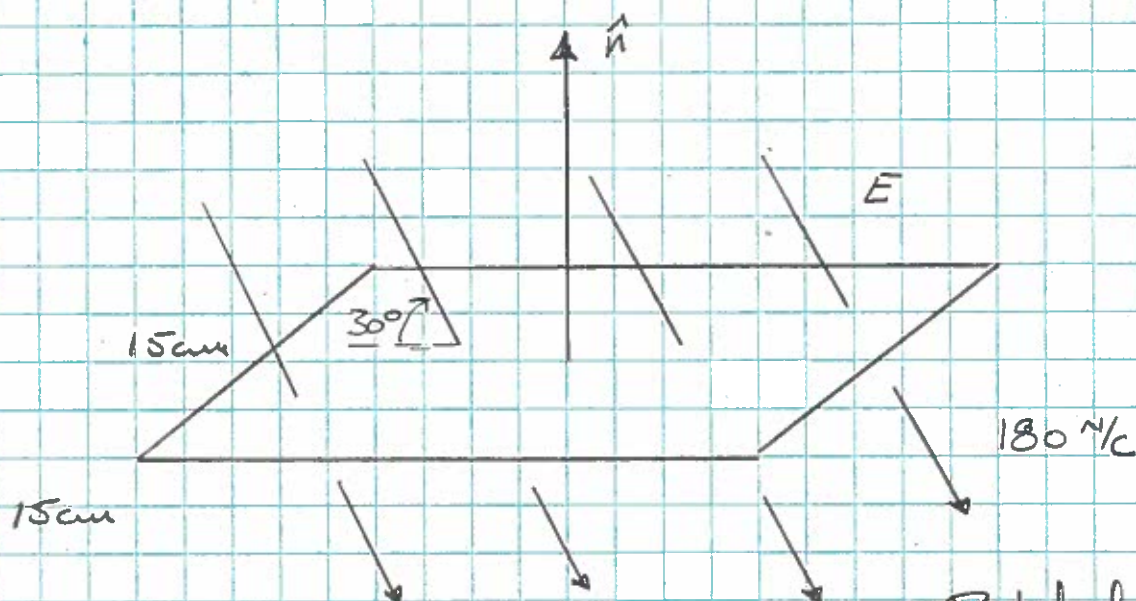


2-1-9
1



Rotated from
figure in text.

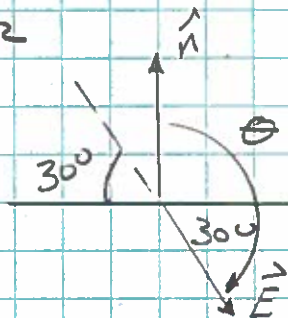
Uniform \vec{E} & planar surface:

$$\Phi_e = \vec{E} \cdot \vec{A} = EA \cos \theta$$

$$A = 0.0225 \text{ m}^2$$

$$\theta = 90^\circ + 30^\circ$$

$$= 120^\circ$$



$$\therefore \Phi_e = -2.025 \frac{\text{Nm}^2}{\text{C}}$$