EX

$$\frac{p}{s} + p = (on p)$$

water Ju = 1600 Kg/m3 Tail = 900 lg/m?.

 $P_1 - P_2 = ??$

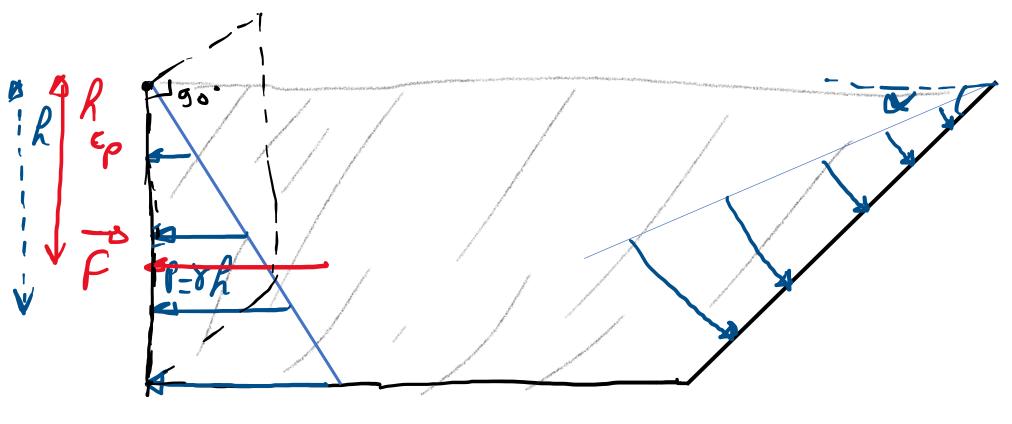
Pe= P1+ rw (0.04+h) +80il (0.32).

$$P_{e} = P_{1} + \gamma_{w} \left(o. \sigma_{h} + h \right) + \delta_{oi} p \left(o. s_{z} \right).$$

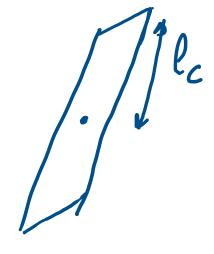
$$P_{1}-P_{2} = Y_{w}(0.32-0.0h) - \delta_{0.1}(0.32)$$

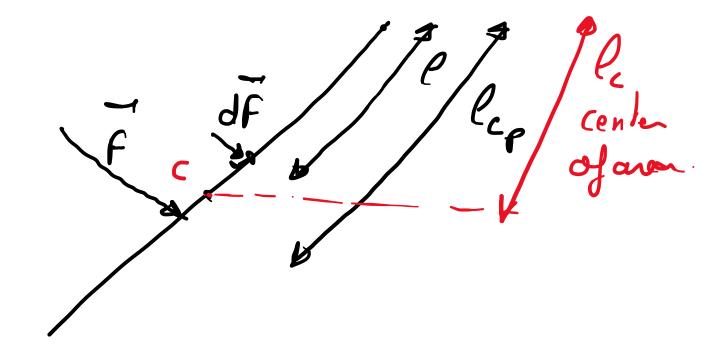
 $\approx -3.5 \text{ Kfa.}$

3. Pressure force on a plane surface.



JF = PJA.





sina = $\frac{h}{l}$. $l = l \sin \alpha$.

$$AF = P dA = (8 \ l \ sin \alpha) \ w dl$$
.
 $AF = \int_{a}^{b} (sin \alpha) \delta \ l \ w dl$.

F- (sina) I la A.

specific veight x position of centrax Area of wall.

8w = 9.8x10 2 r. Cc x A.

 $=9.81\times10^3$ $\times2.88=1.568\times10^5$ N.

Location of force.

$$l_F = \frac{2}{3}II = \frac{2}{3}2l_c = \frac{14}{3}l_c$$