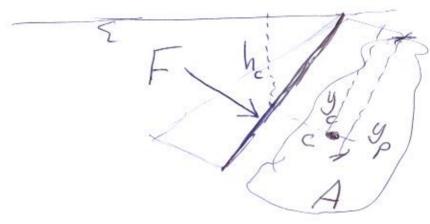
2.3 Pressure on Inclined Surface

Pressure differes here, deputing a h.
Surface can be vertical or be

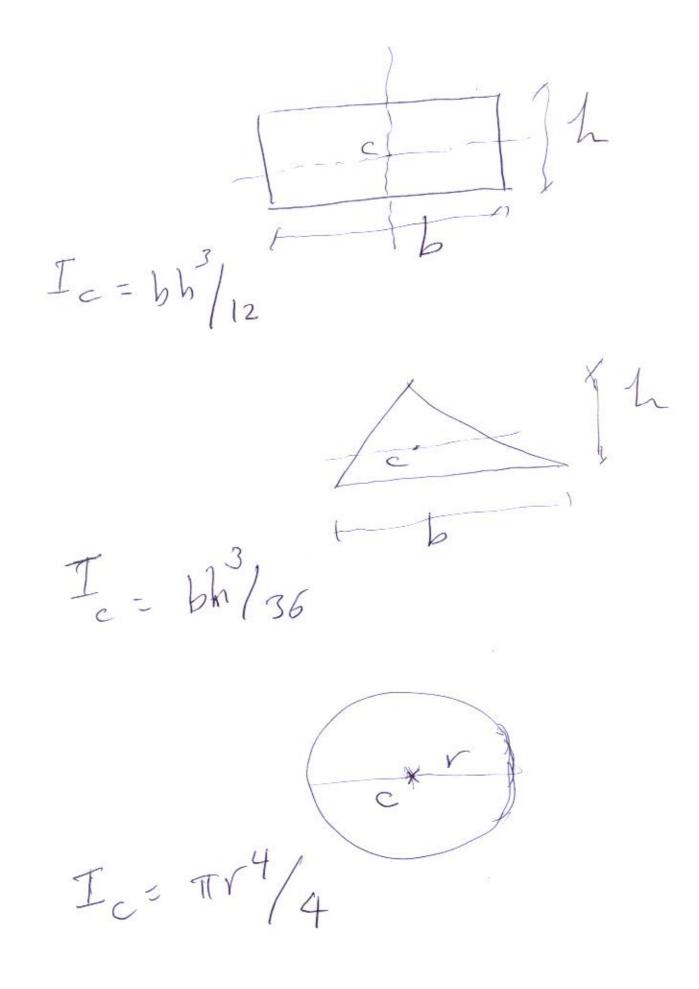


$$F = P_c A$$

$$= 8 h_c A$$

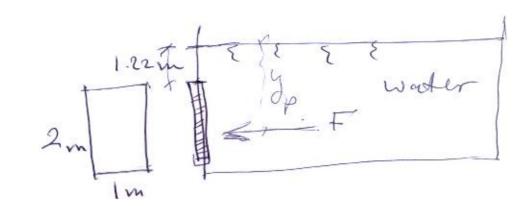
$$y_p = y_e + \frac{I_c}{y_c A}$$

Ic = moment of mertia after The avea about centrordal axis



3

EX



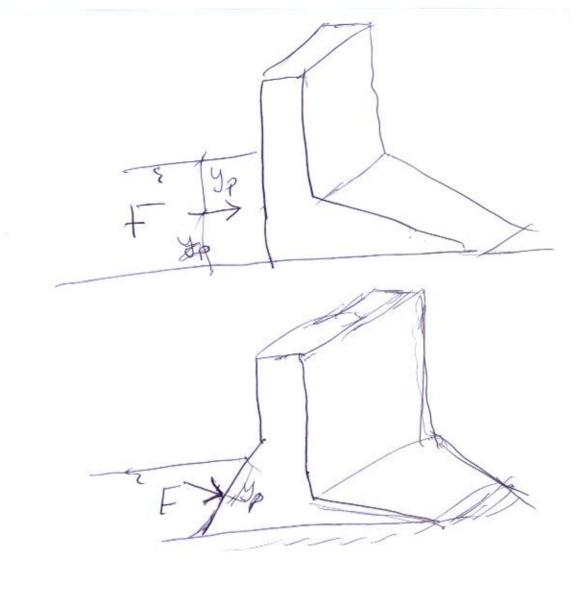
Find magnitude of pressure force on the gate of its point of action.

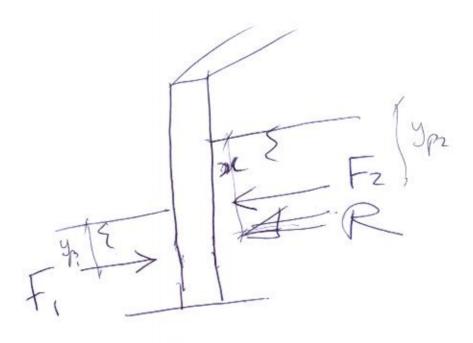
F= PcA = 8hcA = 9810 (1.22+1) (1x2) = 43.56 km

 $y_{p} = y_{c} + I_{c} / y_{e} A$ $= (1.72 + 1) + \frac{(1 \times 2^{3})/12}{(1.72 + 1) \times (1 \times 2)}$

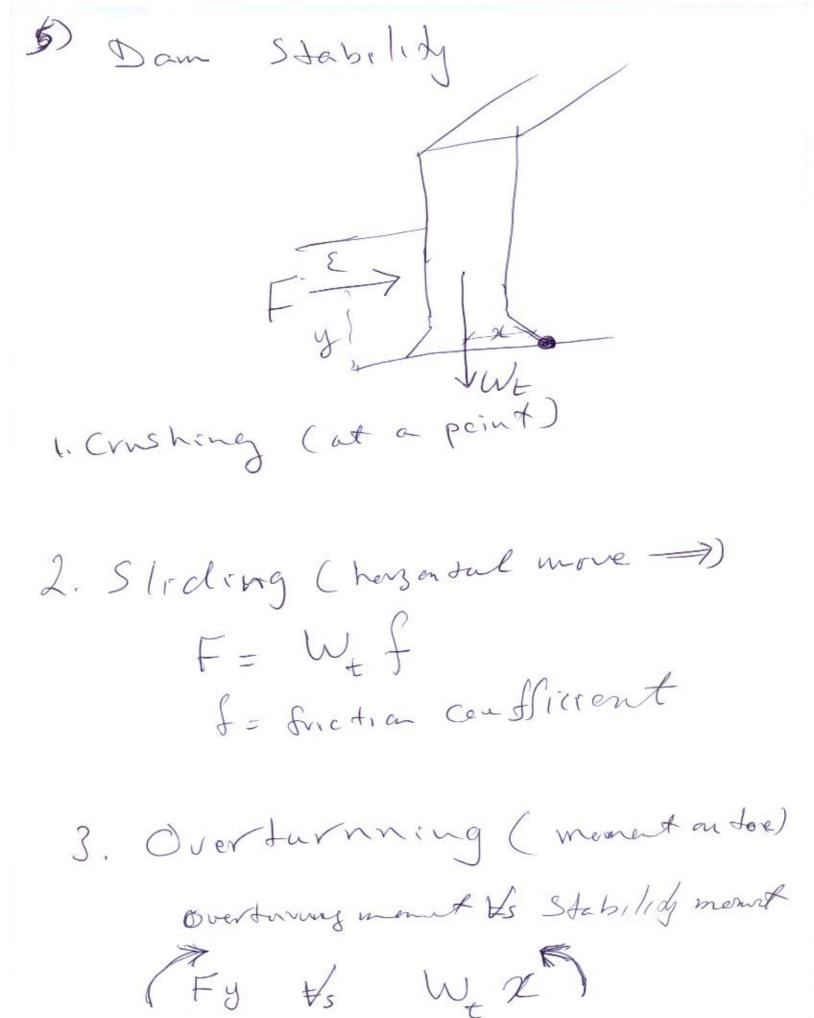
= 2.37 m







 $R = F_2 - F_1$ $Rx = F_2 y_{p2} - F_1 y_{p1}$



6) Dams in Sandi Dabia * Purposes of dams - Flood control Gromdwater recharge Poner goneration Direct use

Recreation

* number of dans is 5.4. mostly gravity dan Storye corpany ×2.2 billion Largest one is King Fahad Dan, Bishah.