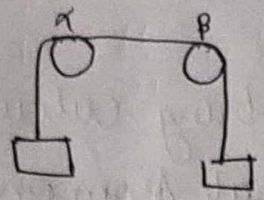
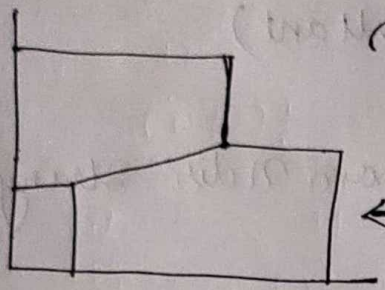
1] 

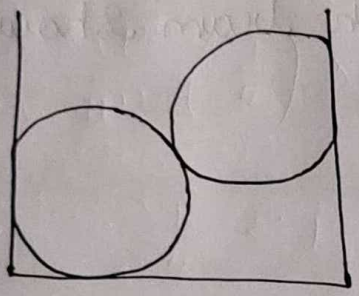
$\therefore \frac{T_1}{T_2} = e^{\mu B}$

where $B = \alpha + \beta$

2] 

→ Refer question Bank (Qn 13.8.3)

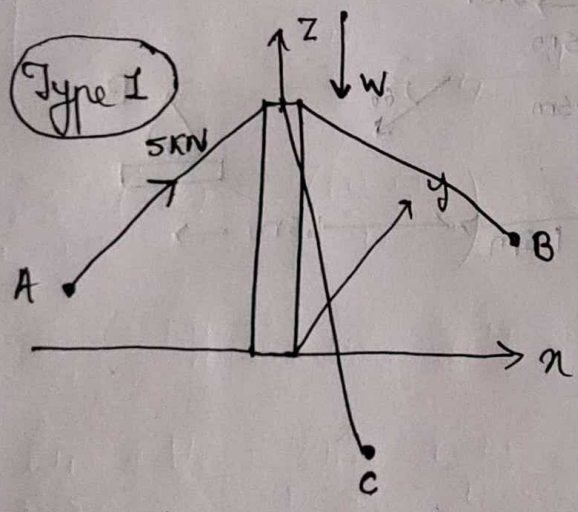
Find P for which the block are in equilibrium (There will be 2 condition for P case① & case②)

3] 

Find Normal forces

(Refer Mid Term Papers)

4] Type 1



$$F = T_T \left(\frac{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}{\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}} \right)$$

Here tension will be given in 1 String then find force in all String

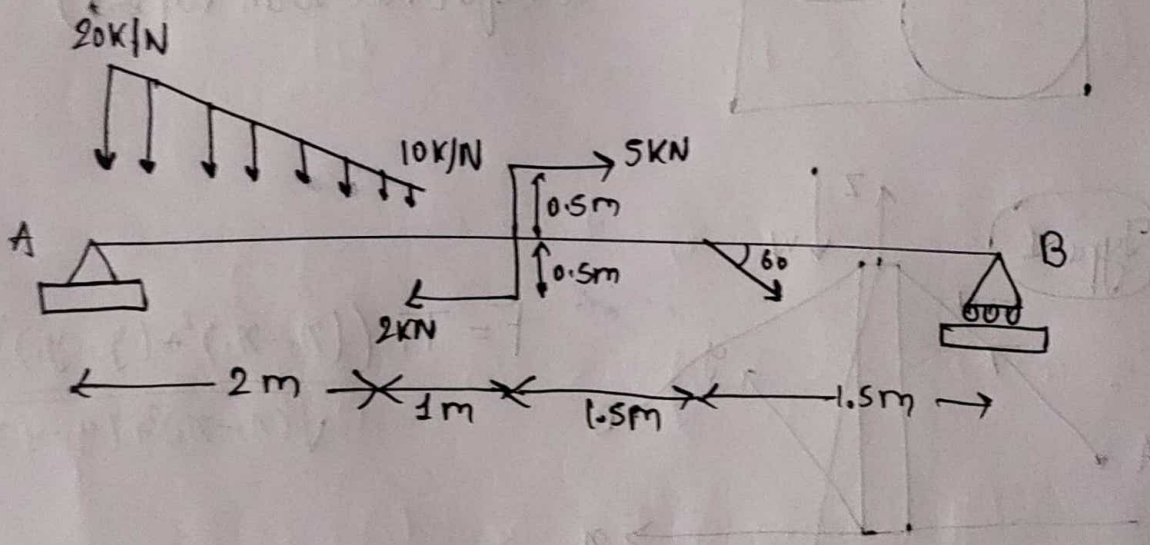
Type 2 →

There will all tention given in String calculate resultant force → Then find angle from one of the string.

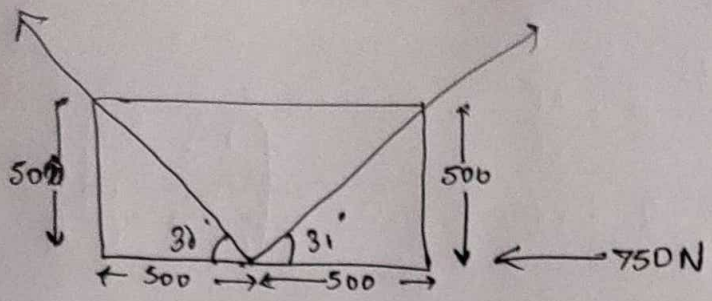
$$R = \sqrt{R_x^2 + R_y^2 + R_z^2} \quad \text{(Resultant)}$$

$$\cos\theta = \frac{R_x}{R} \quad \text{(Angle from x dirⁿ String)}$$

5] Compute reaction A and B for the beam shown in Fig



6]



Find the Resultant force and angle?

(The Above question is for example Not exact values will be different)

- ☆ There are 2 sets of paper for Em
- ☆ There are 2 impact question, 1 Impulse collision question, 1 centroid, 1 question is from dynamics
- ☆ In impulse as impact question use Conservation of Linear momentum and 3 equations Similarly to class questions.