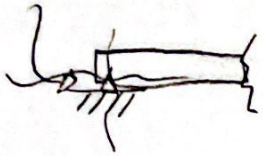


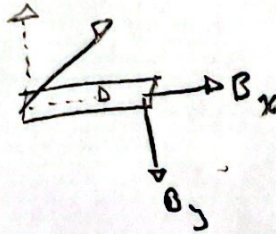
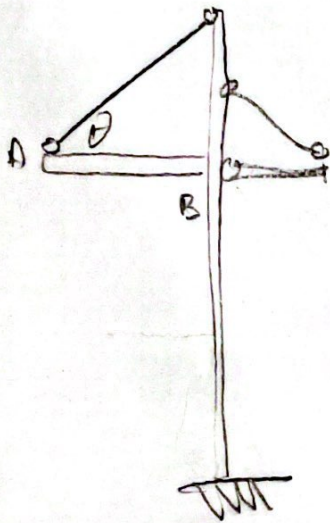
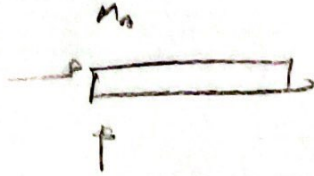
Pin support



Roller support



Fixed

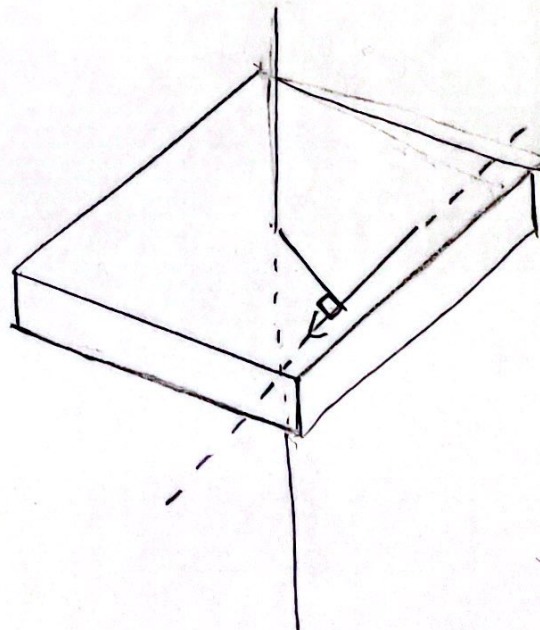


for equilibrium

$$\sum F_x = 0$$

$$\sum F_y = 0$$

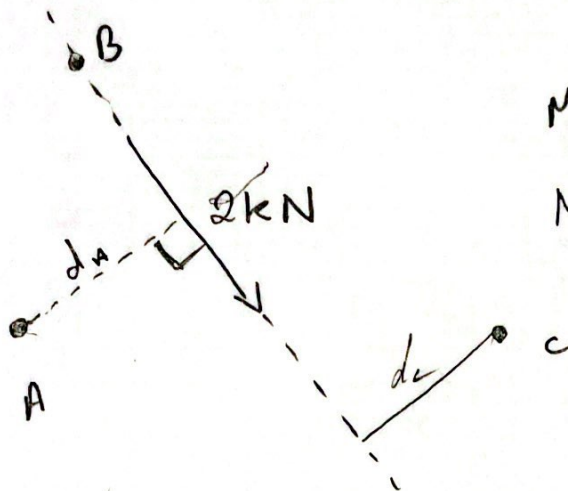
$$\sum M_o = 0$$



line of action
(line extended from force)

$$d_A = \text{dis} \perp$$

CCW +ve

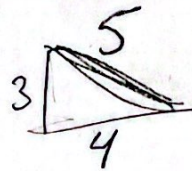
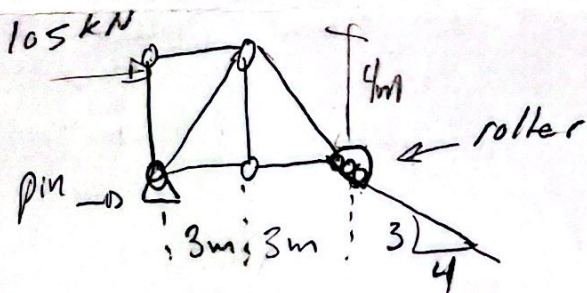


$$M_B = 0$$

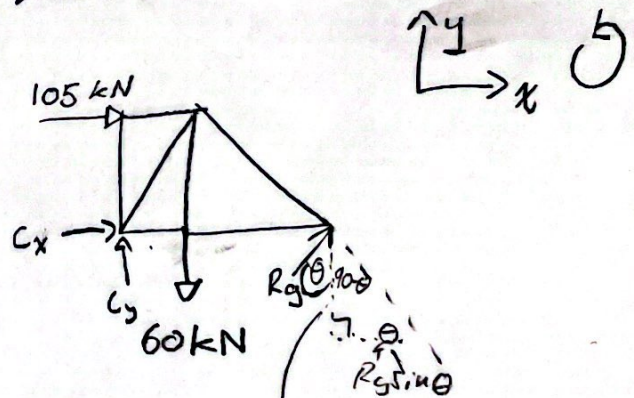
$$M_A = (2 \text{ kN}) d_A (-1)$$

for direction of rotation

ex.



FBD



$$\sum M_G = 0$$

reference point

$$+60(3) - (C_y)(6) - (105)(4) = 0$$

Now we can solve for C_y