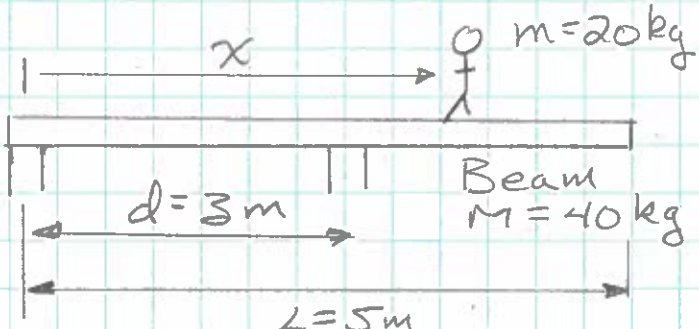
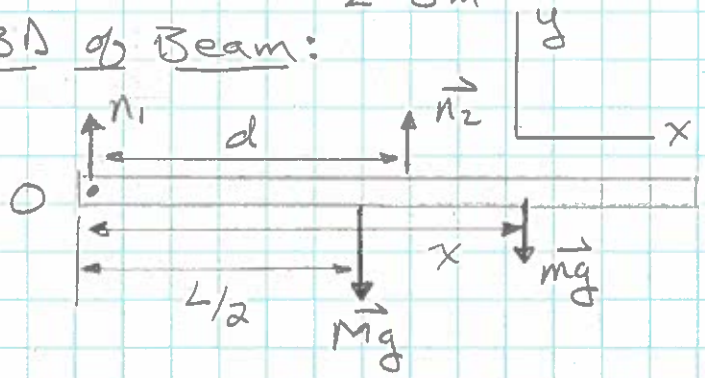


FBD of Beam:



$$\Sigma F_y = n_1 + n_2 - Mg - mg = 0 \qquad (1)$$

$$\circlearrowleft + \Sigma \tau_O = n_2 d - Mg\frac{L}{2} - mgx = 0 \qquad (2)$$

From (1):

$$n_1 + n_2 = (M+m)g$$

Just when the beam tips, $n_1 \to 0$.

So

$$n_2 = (M+m)g$$

and subst. into (2):

$$(M+m)gd - Mg\frac{L}{2} - mgx = 0$$

$$\therefore \quad x = \frac{1}{m}\left\{(M+m)d - M\frac{L}{2}\right\}$$

$$x = 4\,m$$

So, the distance from the right end $= L - 4m = 1\,m$