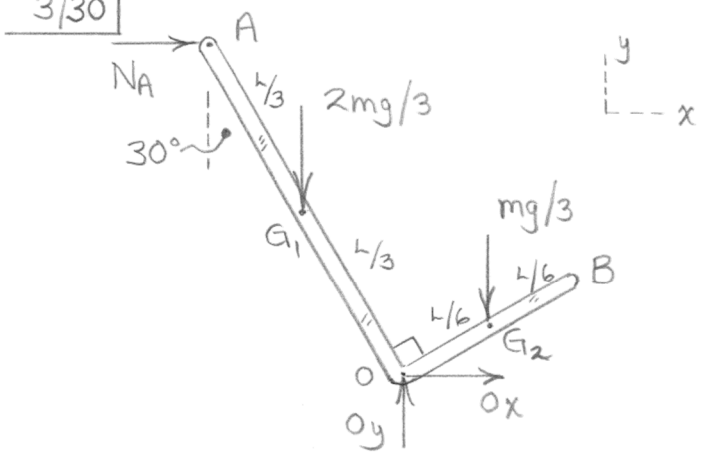
3/30



$$\curvearrowleft \Sigma M_O = 0: \quad -N_A\left(\frac{2L}{3}\cos 30^\circ\right) + \frac{2mg}{3}\left(\frac{L}{3}\sin 30^\circ\right) - \frac{mg}{3}\left(\frac{L}{6}\cos 30^\circ\right) = 0$$

$$N_A = 0.1091\,mg$$

$$\Sigma F_y = 0 \Rightarrow O_y = mg$$

$$\Sigma F_x = 0 \Rightarrow O_x = -0.1091\,mg$$

$$O = \sqrt{O_x^2 + O_y^2} = 1.006\,mg$$