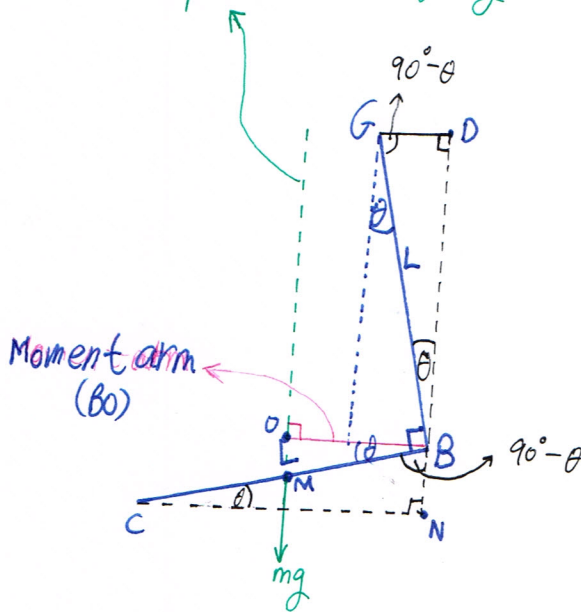
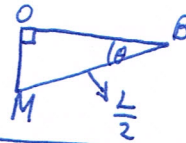


Line of operation (gravity mg - rod BC)



$$GD = L \sin \theta$$



$$Bo = \frac{L}{2} \cos \theta$$

$$\sum \tau_B = 0 = -T \cdot L \sin \theta + \frac{L}{2} \cos \theta \cdot mg + \frac{L}{2} \sin \theta \cdot mg$$

$$T = 2mg$$

$$- 2mg \cancel{L} \sin \theta + \frac{1}{2} mg \cancel{L} \cos \theta + \frac{1}{2} mg \cancel{L} \sin \theta = 0$$

$$-2 \sin \theta + \frac{1}{2} \cos \theta + \frac{1}{2} \sin \theta = 0$$

$$-\frac{3}{2} \sin \theta + \frac{1}{2} \cos \theta = 0$$

$$\cos \theta - 3 \sin \theta = 0$$

?