

$$F=\frac{9.82}{2}[N]$$

$$l_a = l_1 * sin(\pi - \alpha_1)$$

$$\theta = \alpha_2 - \frac{3\pi}{2} + \alpha_1$$

$$l_b = \frac{l_2}{2}cos(\theta)$$

$$M_2=F*\frac{l_b}{2}$$

$$M_1=F*(l_b+l_a)$$