

C-22-8-314

$$I = \int_0^L x^2 = \frac{2L^3}{3}$$

$$m = 2L$$

$$I = \frac{mL^2}{3}$$

$$x_{cm} = L/2$$

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$$\tau = \frac{L}{2} mg \cos \beta = I \alpha$$

$$\frac{L}{2} mg \cos \beta = \frac{mL^2}{3} \alpha$$

$$\alpha = \frac{3}{2} \frac{g \cos \beta}{L}$$

$$a_a = \alpha \cdot \frac{L}{3} = \frac{1}{2} g \cos \beta$$

$$a_b = \alpha \cdot \frac{4L}{5} = 1.2 g \cos \beta$$

