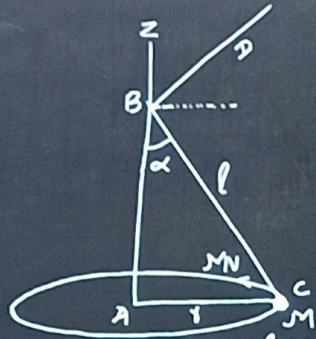


PYQ-Rot. Mech-03/11



Prob-1

A mass M hangs on a massless rod of length l which rotates at constant angular frequency.

The mass M moves with a steady speed on a circular path of constant radius. Assume the system is in steady circular motion with constant angular velocity ω .

The angular momentum of M about point A is L_A which lies in positive z -axis. and angular momentum of M about B is L_B .

Check Magnitude & Direction of L_A & L_B which is constant.