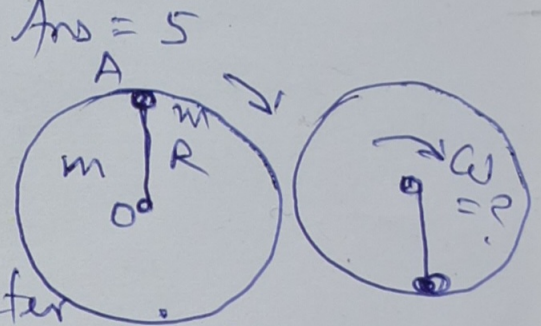


PYQ - Rot Mechanics - 02

Q.1. A disc of mass ' m ' = 1kg and Radius R is free to rotate about horizontal axis passing through its centre perpendicular to its plane. A body of mass ' m ' = 1kg as that of disc is fixed at the highest point of disc. Now the system is released its angular speed ~~with~~ when the ' m ' comes to lowest point is $\omega = 4\sqrt{\frac{2R}{3}}$

Find $\alpha = ?$
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Q.2. Four identical disc each of mass M and diameter ' a ' are arranged in a small plane as shown in the fig. If the moment of Inertia of the system about OO' is $\frac{\alpha}{4} Ma^2$. Then value of α will be

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