

$$= \frac{4\pi \times 3}{9 \times 2 \times 10 \times 4}$$

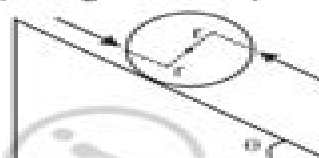
$$= \frac{\pi}{60} \text{ m}$$

So, height from ground will be

$$R(1 - \cos 60^\circ) + \frac{\pi}{60} = \frac{1}{2} + \frac{x}{10}$$

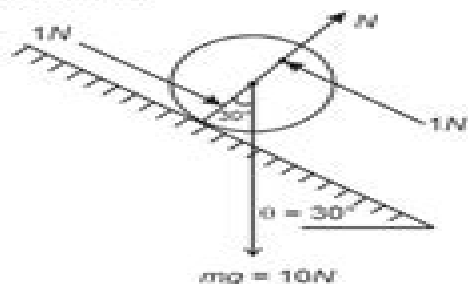
$$\Rightarrow x = \frac{\pi}{6} = 0.52$$

6. A solid sphere of mass 1 kg and radius 1 m rolls without slipping on a fixed inclined plane with an angle of inclination $\theta = 30^\circ$ from the horizontal. Two forces of magnitude 1 N each, parallel to the incline, act on the sphere, both at distance $r = 0.5$ m from the center of the sphere, as shown in the figure. The acceleration of the sphere down the plane is _____ ms^{-2} . (Take $g = 10 \text{ ms}^{-2}$.)



Answer (02.86)

Sol.



Taking torque about contact point.

$$\tau = mgR \sin 30^\circ + 1 \times 1 \odot$$

taking $\odot$ is positive

$$5 - 1 = \frac{7}{5} mR^2 \alpha$$

$$\Rightarrow \alpha = \frac{20}{7} \text{ rad/s}^2$$

$$\text{So, } a_{\text{cm}} = \alpha R = \frac{20}{7} \text{ m/s}^2$$

$$a_{\text{cm}} = 2.86 \text{ m/s}^2$$

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