

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

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

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 \_\_\_\_\_  $\text{ms}^{-2}$ . (Take  $g = 10 \text{ ms}^{-2}$ .)



Answer (02.86)



Taking torque about contact point.

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

taking  $\odot$  is positive

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

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

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

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

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