$$= \frac{4\pi \times 3}{9 \times 2 \times 10 \times 4}$$
$$= \frac{\pi}{60} \text{ m}$$

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 θ = 30° 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 ms⁻².)



Answer (02.86)

Sol.



$$mg = 10N$$

Taking torque about contact point.

$$\bar{\tau} = mgR \sin 30^{\odot} + 1 \times 1^{\odot}$$

taking @ is positive

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

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

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

$$a_{\rm bm} = 2.86 \, {\rm m/s}^2$$

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