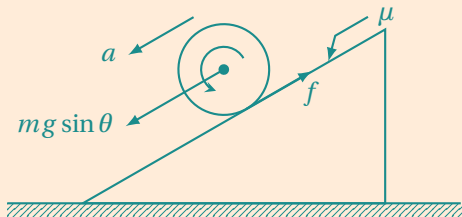how rough the surface should be to perform
rolling motion without slipping !!

$$\mu \geq \frac{\tan\theta}{1 + \dfrac{mr^2}{I}}$$

$$m \quad I \quad \mu \quad \theta \quad r$$

mass

radius

inclined angle

moment of inertia

coefficient of friction

difficulty level