

1. Distance of the centre of mass of a solid uniform cone from its vertex is z_0 . If the radius of its base is R and its height is h then z_0 is equal to :

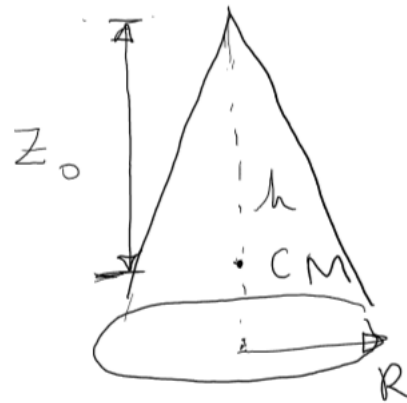
(1) $\frac{5h}{8}$

(2) $\frac{3h^2}{8R}$

(3) $\frac{h^2}{4R}$

(4) $\frac{3h}{4}$

← correct option



Distance of CM from base is $\frac{h}{4}$.

Therefore distance from vertex = $h - \frac{h}{4} = \frac{3h}{4} = z_0$