

$$\boxed{B/29} \quad I_0 = \frac{1}{3} m l^2 + 7 m x^2 = \underline{m \left(7 x^2 + \frac{1}{3} l^2 \right)}$$

$$\text{For } x = \frac{3}{4} l: I_0 = m \left(7 \cdot \left(\frac{3}{4} l \right)^2 + \frac{1}{3} l^2 \right) = \frac{205}{48} m l^2$$

$$\text{For } x = l: I_0 = m \left(7 l^2 + \frac{1}{3} l^2 \right) = \frac{22}{3} m l^2$$

$$R = \frac{205/48}{22/3} = \underline{0.582}$$