

$$\frac{2.6^3}{4} \quad \textcircled{I} \quad \int_0^4 0.2x \cdot \ln 0.3x \, dx = \frac{1}{2} \int_0^4 (\ln 0.5x + \ln 0.1x) \, dx = \frac{1}{2} \left[\frac{-0.5x}{5} - \frac{0.1x}{1} \Big|_0^4 \right] =$$
$$\frac{1}{2} \left[\left(\frac{1}{5} + 1 \right) - \left(-\frac{1}{5} - 1 \right) \right] = 1 \frac{1}{5}$$