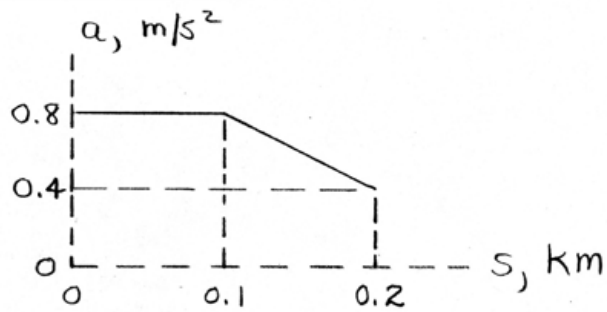


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From $a = v \frac{dv}{ds}$,

$$\int_{v_0}^v v dv = \int_0^{200} a ds = \text{area under } a-s \text{ curve}$$

$$\frac{v^2}{2} - \frac{(40/3.6)^2}{2} = 0.8(100) + 0.6(100)$$

$$\underline{v = 20.1 \text{ m/s}} \quad \text{or} \quad \underline{72.3 \text{ km/h}}$$