

67. We assume constant velocity motion and use Eq. 2-2 (with  $v_{\text{avg}} = v > 0$ ). Therefore,

$$\Delta x = v\Delta t = \left(303 \frac{\text{km}}{\text{h}} \left(\frac{1000 \text{ m/km}}{3600 \text{ s/h}}\right)\right) (100 \times 10^{-3} \text{ s}) = 8.4 \text{ m} .$$