

Sample Problem Set 1 Solutions

Motion in One Dimension

Teacher Notes and Answer Key

ADDITIONAL PRACTICE B

Given:

$$\begin{aligned} 1. \quad v_1 &= 0 \text{ km/hr} = 0 \text{ m/s} \\ a_{\text{avg}} &= 3.0 \text{ m/s}^2 \\ \Delta t &= 3.00 \text{ m/s} \end{aligned}$$

Solution:

$$v_2 = v_{1\text{avg}} \Delta t + v_1 = (3.00 \text{ m/s}^2)(3.00 \text{ m/s}) \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) + 0 \text{ m/s} = \boxed{9000 \text{ m/s}}$$

$$v_2 = 9000 \text{ m/s} = 9.000 \text{ m/s} \left(\frac{3600 \text{ s}}{1 \text{ h}} \right) \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{32.4 \text{ km/h}}$$

$$\begin{aligned} 2. \quad \Delta t &= 3.0 \text{ m/s} \\ a_{\text{avg}} &= 60.0 \text{ m/s}^2 \\ v_1 &= 0 \text{ m/s} \end{aligned}$$

$$v_2 = v_{1\text{avg}} \Delta t + v_1 = (60.0 \text{ m/s}^2)(3.0 \text{ m/s}) \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) + 0 \text{ m/s} = \boxed{1.8 \text{ km/s}}$$

$$\begin{aligned} 3. \quad \Delta t &= 40.0 \text{ s} \\ a_{\text{avg}} &= 0.20 \text{ m/s}^2 \\ v_1 &= 0 \text{ m/s} \end{aligned}$$

$$v_2 = v_{1\text{avg}} \Delta t + v_1 = (0.20 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{8.00 \text{ m/s}}$$

$$\begin{aligned} 4. \quad \Delta t &= 20.000 \text{ s} \\ \Delta t &= 3.000 \text{ s} \end{aligned}$$

$$a_1 = v_{1\text{avg}} = \frac{\Delta v}{\Delta t} = \frac{20.000 \text{ m}}{3.0000 \left(\frac{1000 \text{ m}}{1 \text{ km}} \right)} = \boxed{6.67 \text{ km/s}^2}$$

$$\begin{aligned} v_1 &= 0.000 \text{ m/s} \\ v_2 &= 6.6 \text{ m/s} \\ \Delta t &= 20.0 \text{ s} \end{aligned}$$

$$a_2 = v_{1\text{avg}} = \frac{\Delta v}{\Delta t} = \frac{6.6 \text{ m/s} - 0.000 \text{ m/s}}{20.0 \text{ s}} = \frac{6.6 \text{ m/s}}{20.0 \text{ s}} = \boxed{0.33 \text{ m/s}^2}$$

$$\begin{aligned} 5. \quad \Delta t &= 1.10 \text{ m/s} \left(\frac{3600 \text{ s}}{1 \text{ hr}} \right) \\ &= 3.96 \times 10^3 \text{ s} \\ \Delta t &= 40.0 \text{ s} \\ a_{\text{avg}} &= 0.25 \text{ s} \\ v_1 &= 0 \text{ m/s} \\ v_2 = v_{1\text{avg}} \Delta t &= 0.250 \text{ m/s} \end{aligned}$$

$$a_1 = v_{1\text{avg}} = \frac{\Delta v}{\Delta t} = \frac{1.10 \times 10^3 \text{ m}}{40.0 \text{ s}} = \boxed{2.75 \text{ m/s}^2}$$

$$a_2 = v_{2\text{avg}} = \frac{v_2 - v_1}{\Delta t_{\text{avg}}} = \frac{0 \text{ m/s} - 0.250 \text{ m/s}}{40.0 \text{ s}} = \frac{-0.250 \text{ m/s}}{40.0 \text{ s}} = \boxed{-0.00625 \text{ m/s}^2}$$

$$\begin{aligned} 6. \quad \Delta t &= 3.00 \times 10^2 \text{ s, backward} \\ &= -3.00 \times 10^2 \text{ s} \\ \Delta t &= 14.0 \text{ s} \\ \Delta t &= 20.00 \text{ s} \\ v_1 &= 0 \text{ m/s} \\ v_2 &= 0 \text{ m/s} \end{aligned}$$

$$a_{\text{avg}} = \frac{\Delta v}{\Delta t} = \frac{-3.00 \times 10^2 \text{ m}}{14.0 \text{ s}} = -2.14 \text{ m/s}^2$$

$$a_{\text{avg}} = \frac{v_2 - v_1}{\Delta t} = \frac{0 \text{ m/s} - 0 \text{ m/s}}{20.00 \text{ s}} = \boxed{0 \text{ m/s}^2}$$

Holt Physics 19a Additional Practice

Daryl W. Preston, Eric R. Dietz

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