

Sample Problem Set 1 Solutions

Motion in One Dimension

Teacher Notes and Answer Key

ADDITIONAL PRACTICE B

Given:

1. $t_1 = 0$ seconds $\rightarrow 0$ m/s
 $a_{avg} = 3.0 \text{ m/s}^2$
 $\Delta t = 3.00$ m/s

Solution:

$$v_2 = v_{avg} \Delta t + v_1 = (3.00 \text{ m/s}^2)(3.00 \text{ m/s}) \left(\frac{100 \text{ m}}{1 \text{ m/s}^2} \right) + 0 \text{ m/s} = \boxed{900 \text{ m/s}}$$

$$v_2 = 900 \text{ m/s} = 9.00 \text{ m/s} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right) = \boxed{0.250 \text{ km/s}}$$

2. $\Delta t = 2.0$ m/s
 $a_{avg} = 60.0 \text{ m/s}^2$
 $v_1 = 0$ m/s

$$v_2 = v_{avg} \Delta t + v_1 = (60.0 \text{ m/s}^2)(2.0 \text{ m/s}) \left(\frac{100 \text{ m}}{1 \text{ m/s}^2} \right) + 0 \text{ m/s} = \boxed{1.2 \text{ km/s}}$$

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

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

4. $\Delta t = 20 \text{ m/s}$
 $\Delta t = 3.00 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ m/s}}{3.00 \text{ s} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right)} = \boxed{6.67 \text{ m/s}^2}$$

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

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{6.6 \text{ m/s} - 0.000 \text{ m/s}}{20.0 \text{ s}} = \frac{0.33 \text{ m/s}}{20.0 \text{ s}} = \boxed{0.017 \text{ m/s}^2}$$

5. $\Delta t = 1.0 \text{ m/s} \left(\frac{1000 \text{ m}}{1 \text{ km}} \right)$
 $= 1.00 \times 10^3 \text{ m}$
 $\Delta t = 40.0 \text{ s}$
 $a_{avg} = 0.25 \text{ s}$
 $v_1 = 0$ m/s
 $v_2 = 10.0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.00 \times 10^3 \text{ m}}{40.0 \text{ s}} = \boxed{2.50 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{10.0 \text{ m/s} - 0.000 \text{ m/s}}{40.0 \text{ m/s}} = \frac{0.25 \text{ m/s}}{40.0 \text{ m/s}} = \boxed{0.006 \text{ m/s}^2}$$

6. $\Delta t = 1.00 \times 10^3 \text{ m, backward}$
 $= -1.00 \times 10^3 \text{ m}$
 $\Delta t = 1.0 \text{ s}$
 $\Delta t = 2.00 \text{ s}$
 $v_1 = 0$ m/s
 $v_2 = 0$ m/s

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-1.00 \times 10^3 \text{ m}}{2.0 \text{ s}} = -5.00 \text{ m/s}^2$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{0.00 \text{ m/s} - 0 \text{ m/s}}{2.00 \text{ s}} = \boxed{0.00 \text{ m/s}^2}$$

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