

Sample Problem Set 1 Solutions

Motion in One Dimension

Teacher Notes and Answer Key

ADDITIONAL PRACTICE B

Given:

1. $t_1 = 0$ seconds to 40 meters
 $a_{avg} = 3.0 \text{ m/s}^2$
 $\Delta t = 3.00 \text{ sec}$

Solution:

$$v_f = v_{avg} \Delta t + v_i = (3.00 \text{ m/s}^2)(3.00 \text{ sec}) \left(\frac{300 \text{ m}}{1 \text{ m/s}} \right) + 0 \text{ m/s} = \boxed{2700 \text{ m/s}}$$

$$v_f = 2700 \text{ m/s} = 2.700 \text{ m/s} \left(\frac{3000 \text{ m}}{1 \text{ km}} \right) \left(\frac{1 \text{ hr}}{3600 \text{ s}} \right) = \boxed{2.25 \text{ km/s}}$$

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

$$v_f = v_{avg} \Delta t + v_i = (60.0 \text{ m/s}^2)(2.0 \text{ sec}) \left(\frac{300 \text{ m}}{1 \text{ m/s}} \right) + 0 \text{ m/s} = \boxed{3.6 \text{ km/s}}$$

3. $\Delta t = 40.0 \text{ s}$
 $a_{avg} = 0.25 \text{ m/s}^2$
 $v_i = 0 \text{ m/s}$

$$v_f = v_{avg} \Delta t + v_i = (0.25 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{100 \text{ m/s}}$$

4. $\Delta t = 20 \text{ min}$
 $\Delta t = 1,200 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ km/s}}{1,200 \text{ s} \left(\frac{3000 \text{ m}}{1 \text{ km}} \right)} = \boxed{5.56 \text{ m/s}^2}$$

$v_f = 0.000 \text{ m/s}$
 $v_i = 0.1 \text{ km/s}$
 $\Delta t = 20.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.1 \text{ km/s} - 0.000 \text{ km/s}}{20.0 \text{ s}} = \frac{1.1 \text{ km/s}}{20.0 \text{ s}} = \boxed{5.5 \times 10^{-2} \text{ km/s}^2}$$

5. $\Delta t = 1.5 \text{ hours} \left(\frac{3600 \text{ sec}}{1 \text{ hour}} \right)$
 $= 5,400 \text{ s}$
 $\Delta t = 40.0 \text{ s}$
 $a_{avg} = 0.25 \text{ m/s}^2$
 $v_i = 0 \text{ m/s}$
 $v_f = 0.25 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{0.25 \text{ m/s} - 0 \text{ m/s}}{40.0 \text{ s}} = \boxed{6.25 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_f - v_i}{\Delta t_{avg}} = \frac{0 \text{ m/s} - 0.250 \text{ m/s}}{40.0 \text{ s}} = \frac{-0.250 \text{ m/s}}{40.0 \text{ s}} = \boxed{-6.25 \times 10^{-2} \text{ m/s}^2}$$

6. $\Delta t = 1.00 \times 10^2 \text{ sec, backward}$
 $= -1.00 \times 10^2 \text{ sec}$
 $\Delta t = 1.0 \text{ s}$
 $\Delta t = 2.00 \text{ s}$
 $v_i = 0 \text{ m/s}$
 $v_f = 0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-1.00 \times 10^2 \text{ m/s}}{1.0 \text{ s}} = -1.00 \times 10^2 \text{ m/s}^2$$

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

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