

# Motion In One Dimension



## Displacement and Velocity, p. 7

1. Yes, from  $t_1$  to  $t_4$  and from  $t_6$  to  $t_9$ .
2. Yes, from  $t_4$  to  $t_9$ .
3. greater than
4. greater than
5. Yes, from 0 to  $t_1$  and from  $t_5$  to  $t_6$ .
6. Yes, from  $t_1$  to  $t_2$ , from  $t_2$  to  $t_6$ , from  $t_4$  to  $t_5$ , and from  $t_6$  to  $t_9$ .
7.  $-5.0$  m (or  $5.0$  m to the west of where it started)

## Acceleration, p. 8

1.  $v_f = 0$ . The car is stopped.
2.  $v_i = \frac{2\Delta x}{\Delta t}$
3.  $a = \frac{-v_i}{\Delta t}$
4.  $a = \frac{-v_i^2}{2\Delta x}$
5.  $v_f = -a\Delta t$ ;  $\Delta x = \frac{1}{2}v_i\Delta t$

## Falling Objects, p. 9

1. a.  $-g$   
b. initial speed =  $g(\Delta t/2)$   
c. elapsed time =  $\Delta t/2$
- d. height =  $g\Delta t^2/8$   
2. a.  $-9.81$  m/s<sup>2</sup>  
b.  $12$  m/s
- c.  $1.2$  s

## Mixed Review, pp. 11–12

1. a.  $t_1 = d_1/v_1$ ;  $t_2 = d_2/v_2$ ;  $t_3 = d_3/v_3$   
b. total distance =  $d_1 + d_2 + d_3$   
c. total time =  $t_1 + t_2 + t_3$
2. a.  $v_f = a(\Delta t)$   
b.  $v_f = v_i + a(\Delta t)$ ;  $\Delta x = \frac{1}{2}(v_i + v_f)\Delta t$  or  $\Delta x = v_i(\Delta t) + \frac{1}{2}a(\Delta t)^2$

3.

Time interval	Type of motion	$v$ (m/s)	$a$ (m/s <sup>2</sup> )
A	speeding up	+	+
B	speeding up	+	+
C	constant velocity	+	0
D	slowing down	+	–
E	slowing down	+	–

4. a.

Time (s)	Position (m)	$v$ (m/s)	$a$ (m/s <sup>2</sup> )
1	4.9	0	$-9.81$
2	0	$-9.8$	$-9.81$
3	$-14.7$	$-19.6$	$-9.81$
4	$-39.2$	$-29.4$	$-9.81$

b.  $1$  sc.  $2$  s

# Motion Study Guide Answers

**James Trefil, Robert M. Hazen**



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