

Study Guide chapter 2 answers

REPRESENTING MOTION

All numerical answers have been rounded to the correct number of significant figures.

Vocabulary Review

1. instantaneous velocity
2. magnitude
3. position
4. time interval
5. vector
6. average velocity
7. coordinate system
8. origin
9. position-time graph
10. motion diagram
11. resultant
12. particle model
13. distance
14. scalar
15. instantaneous position
16. displacement
17. average speed

SECTION 1

1. B
2. B
3. D
4. C
5. A

SECTION 2

1. 4 m, -4 m, 5 m, 3 m, and 0 m
2. 1 m/s

3. -1 m/s
4. A, C, D
5. B

SECTION 3

1. time
2. position
3. 9.0 m
4. 4.0 s
5. 1.5 m/s
6. $v = \frac{\Delta x}{\Delta t}$
 $\Delta t = \frac{\Delta x}{v}$
 $= \frac{18.0 \text{ m}}{1.5 \text{ m/s}}$
 $= 12 \text{ s}$
7. $v = \frac{\Delta x}{\Delta t}$
 $\Delta x = v \Delta t$
 $= (1.5 \text{ m/s})(300 \text{ s})$
 $= 400 \text{ m}$

SECTION 4

1. $\Delta t = t_2 - t_1$
2. at $x = 15.0 \text{ m}$, $t_2 = 6.0 \text{ s}$
at $x = 5.0 \text{ m}$, $t_1 = 2.0 \text{ s}$
 $\Delta t = t_2 - t_1$
 $= 6.0 \text{ s} - 2.0 \text{ s}$
 $= 4.0 \text{ s}$
3. $\Delta x = x_2 - x_1$
4. at $t = 8 \text{ s}$, $x_2 = 20.0 \text{ m}$
at $t = 2 \text{ s}$, $x_1 = 5.0 \text{ m}$
 $\Delta x = x_2 - x_1$
 $= 20.0 \text{ m} - 5.0 \text{ m}$
 $= 15.0 \text{ m}$
5. $v = \frac{x_2 - x_1}{t_2 - t_1}$

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G Psacharopoulos



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