

AP Physics 1 Multiple Choice Questions - Chapter 2

1 The vector quantity of displacement divided by time is _____ while the scalar quantity of distance divided by time is _____.

- a acceleration, speed
- b velocity, speed
- c speed, acceleration
- d speed, velocity
- e None of the above

2.1

2 Which of the following quantities is a scalar?

- a Time
- b Displacement
- c Force
- d Velocity
- e All are vectors

2.1

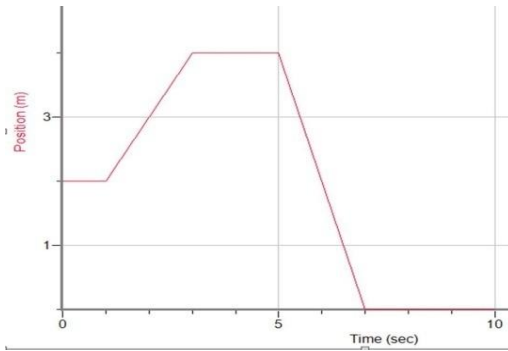
3 Which of the following are the appropriate SI units for acceleration?

- a m/s^3
- b m/s
- c s/m
- d m/s^2

2.1

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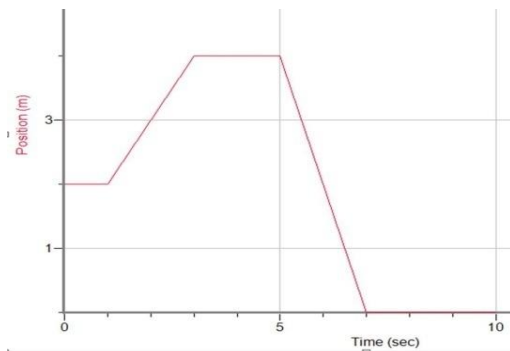
1



What is the instantaneous velocity of the particle at $t = 6$ seconds?

- a -1 m/s
- b 2 m/s
- c -2 m/s
- d 0 m/s
- e None of the above

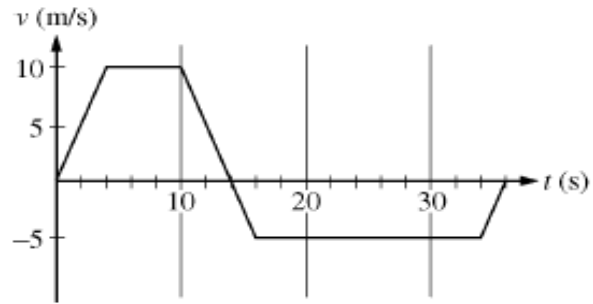
2



What is the instantaneous velocity of the particle at $t = 2$ seconds?

- a 2 m/s
- b -1 m/s
- c 0 m/s
- d 1 m/s
- e None of the above

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2.2

- 3 An object's velocity v as a function of time t is given in the graph above. Which of the following statements is true about the motion of the object?
- a The object is not moving from $t = 4$ seconds to $t = 10$ seconds
 - b The object's initial and final positions are the same
 - c The object is slowing down from $t = 14$ seconds to $t = 16$ seconds
 - d The average acceleration of the object from $t = 0$ seconds to $t = 14$ seconds is different from the acceleration from $t = 34$ seconds to $t = 36$ seconds.

