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Chapter 2—Motion in One Dimension

MULTIPLE CHOICE

1. The position of a particle moving along the x axis is given by $x = (21 + 22t - 6.0t^2)\text{m}$, where t is in s. What is the average velocity during the time interval $t = 1.0$ s to $t = 3.0$ s?
- a. -6.0 m/s b.
 4.0 m/s c.
 2.0 m/s d.
 8.0 m/s e.
 8.0 m/s

ANS: C

PTS: 2

DIF: Average

2. A bullet is fired through a board, 14.0 cm thick, with its line of motion perpendicular to the face of the board. If it enters with a speed of 450 m/s and emerges with a speed of 220 m/s, what is the bullet's acceleration as it passes through the board?
- a. 500 km/s² b.
 550 km/s² c.
 360 km/s² d.
 520 km/s² e.
 275 km/s²

ANS: B

PTS: 3

DIF: Challenging

3. The position of a particle moving along the x axis is given by $x = 6.0t^2 - 1.0t^3$, where x is in meters and t is in seconds. What is the position of the particle when it achieves its maximum speed in the positive x direction?
- a. 24 m
b. 12 m
c. 32 m
d. 16 m
e. 2.0 m

ANS: D

PTS: 3

DIF: Challenging

4. The velocity of a particle moving along the x axis is given for $t > 0$ by $v_x = (32.0t - 2.00t^3)$ m/s, where t is in s. What is the acceleration of the particle when (after $t = 0$) it achieves its maximum displacement in the positive x direction?
- a. 64.0 m/s²
b. zero
c. 128 m/s²
d. 32.0 m/s²
e. 32.0 m/s²

Physics 1test Bank

BM King



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Unveiling the Magic of Words: A Review of "**Physics 1test Bank**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Physics 1test Bank**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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