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Physics (342105)

PHYSICS DEPARTMENT

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Section #

Take $g = 9.8 \text{ m/s}^2$.

FORM NUMBER 27416

Date: Nov/28/2021

Q1) An object moving along the x-axis has an initial velocity v = 1 m/s at t = 0. Its velocity two seconds later is -3 m/s. What is the average acceleration (in m/s²) of the particle between t = 0 and t = 2s?

A) 2

B) 4

C) 0

D) - 2

E) - 4

 $L = \frac{-3-1}{2}$

A stone is projected vertically upwards from the surface of the ground with an initial speed of 15 m/s. Its average speed (in m/s) over the time interval from its projection to the moment just before hitting the ground is:

A) 7.5

B) 9.8

C) 0 V = (2) D) 12.5 4

E) 5.9 Thip = 201 9 trip = vi2/9

A car is moving along the positive x-axis at a constant speed of 15 m/s. The driver notices a red traffic light 30 m ahead of him. Thus the driver immediately applies the breaks, and the car decelerates uniformly at 3 m/s². Which of the following statements is correct?

A) The car will stop at a position 7.5 m before reaching the traffic light.

B) The car will stop at a position 7.5 m after the traffic light.

C) The car will stop at a position 2.5 m before reaching the traffic light.

D) The car will stop at a position 2.5 m after the traffic light.

E) The car will stop exactly at the position of the traffic light

f = UI + 2(-a) (DX) $DX = \frac{UI}{2a} = +37.5 \text{ m}$

A helicopter is ascending vertically upwards at a constant speed of 12 m/s. When it is at a height of 60 m above the round it releases a box. The speed (in m/s) of the box just before it hits the ground is: (-4)

A) 12

D)

B) 34.3

C) 16.7

D) 9.8

E) 36.3 $V_1 = (12)^3$

Q5) In each figure, the set of forces act on an object. Which set does NOT change the state of motion of the object?

A)

B) a 6



 $\vec{a} + \vec{b} + \vec{c} = [-\vec{a}]$ Net tonce = zerc.

Q6) Which of the following statements is WRONG?

A) While mass is a scalar quantity, weight is a vector quantity.

B) The action force and the reaction force can never act on the same object.

C) An object can move at constant velocity if only one force acts on it.

D) If an object is moving at constant velocity, then the resultant force acting on it is zero.

E) The acceleration is always along the direction of the resultant force.

