Physics 2305 24 January, 2000
Quiz 1—Form A

1. Jamie slams on his brakes and decelerates from 45 mph (20 m/s) to rest in 3.5 seconds. What is his deceleration?

A) -5.7 m/s^2
B) -9.8 m/s^2
C) -70 m/s^2
D) You must know the stopping distance.

2. Which of the following appears on the website for this course?

A) Answers to even-numbered problems
B) Old exams
C) Lecture notes
D) Figures from the textbook in PDF format

Useful equations:

$$x = (1/2)\, a\, t^2 + v_o\, t + x_o$$
$$v = v_o + a\, t$$
$$v^2 = v_o^{\,2} + 2\, a\, (x - x_o)$$
$$g = 9.8 \text{ m/s}^2$$

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Quiz 1—Form B

1. Joanne drops a coin out of her window, and it hits the ground 3.5 seconds later. How far did it fall?

A) 17 m
B) 60 m
C) 120 m
D) There is not enough information.

2. Which of the following appears on the website for this course?

A) Old exams
B) Lecture notes
C) Figures from the textbook in PDF format
D) Handouts from previous lectures

Useful equations:

$$x = (1/2)\, a\, t^2 + v_o\, t + x_o$$
$$v = v_o + a\, t$$
$$v^2 = v_o^{\,2} + 2\, a\, (x - x_o)$$
$$g = 9.8 \text{ m/s}^2$$

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Quiz 1—Form C

1. If Judy decelerates at a rate of −6.6 m/s^2 from 75 mph (33.5 m/s) to rest, what is her stopping distance?

A) 2.5 m
B) 85 m
C) 170 m
D) You must know how long it took.

2. What is the policy for late homework?

A) Late homework is not accepted.
B) Late homework is penalized 50% per day.
C) Late homework is penalized 10% per day.
D) There are no penalties for late homework.

Useful equations:

$$x = (1/2)\, a\, t^2 + v_o\, t + x_o$$
$$v = v_o + a\, t$$
$$v^2 = v_o^{\,2} + 2\, a\, (x - x_o)$$
$$g = 9.8 \text{ m/s}^2$$

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Quiz 1—Form D

1. If a jar dropped from rest hits the sidewalk below at a speed of 22 m/s (50 mph), how far did it fall?

A) 1.1 m
B) 2.2 m
C) 25 m
D) 50 m

2. Where will you find the procedures for submitting homework?

A) On the Introduction handout
B) In our lecture notes from the first week
C) On the Administrative Issues webpage
D) Posted on Dr. Sloan's office door

Useful equations:

$$x = (1/2)\, a\, t^2 + v_o\, t + x_o$$
$$v = v_o + a\, t$$
$$v^2 = v_o^{\,2} + 2\, a\, (x - x_o)$$
$$g = 9.8 \text{ m/s}^2$$