

2002 AP[®] PHYSICS B FREE-RESPONSE QUESTIONS (Form B)

PHYSICS B
SECTION II
Time—90 minutes
7 Questions

Directions: Answer all seven questions, which are weighted according to the points indicated. The suggested time is about 15 minutes for answering each of questions 1-4, and about 10 minutes for answering each of questions 5-7. The parts within a question may not have equal weight. Show all your work in the goldenrod booklet in the spaces provided after each part, NOT in this lavender insert.

- direction



+ direction

1. (15 points)

A 2.0 kg frictionless cart is moving at a constant speed of 3.0 m/s to the right on a horizontal surface, as shown above, when it collides with a second cart of undetermined mass m that is initially at rest. The force F of the collision as a function of time t is shown in the graph below, where $t = 0$ is the instant of initial contact. As a result of the collision, the second cart acquires a speed of 1.6 m/s to the right. Assume that friction is negligible before, during, and after the collision.

① $J = \text{area under curve}$

$$= \frac{1}{2}(.001)(10,000)$$

$$= 5 \text{ kg} \cdot \text{m/s}$$

$$-5 = m \Delta v$$

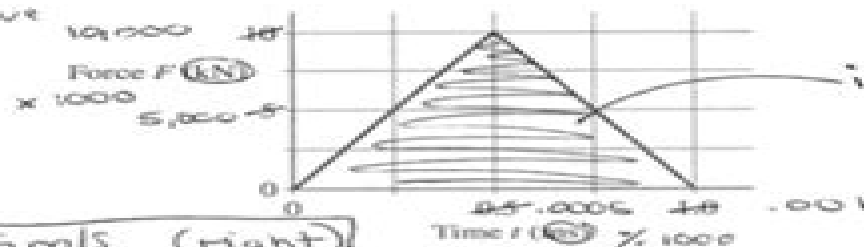
$$-5 = 2(v_f - 3)$$

$$-\frac{5}{2} = v_f - 3$$

$$v_f = +0.5 \text{ m/s (right)}$$

(a) Calculate the magnitude and direction of the velocity of the 2.0 kg cart after the collision.

(b) Calculate the mass m of the second cart.



impulse
($J = F \cdot t$)

negative since force
pulls car to left

	Cart A	Cart B	Total
Before	2(3)	0	6
After	2(0.5)	$m(1.6)$	6

$$p = mv$$

$$1 + 1.6m = 6$$

$$1.6m = 5$$

$$m = 3.125 \text{ kg}$$

1973 Ap Physics Response Answers Form

Anthony S. Fauci



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1. Understanding the eBook 1973 Ap Physics Response Answers Form
 - The Rise of Digital Reading 1973 Ap Physics Response Answers Form
 - Advantages of eBooks Over Traditional Books
2. Identifying 1973 Ap Physics Response Answers Form
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1973 Ap Physics Response Answers Form
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1973 Ap Physics Response Answers Form
 - Personalized Recommendations
 - 1973 Ap Physics Response Answers Form User Reviews and Ratings
 - 1973 Ap Physics Response Answers Form and Bestseller Lists

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 - Interactive Elements 1973 Ap Physics Response Answers Form
8. Staying Engaged with 1973 Ap Physics Response Answers Form
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1973 Ap Physics Response Answers Form
9. Balancing eBooks and Physical Books 1973 Ap Physics Response Answers Form
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1973 Ap Physics Response Answers Form
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1973 Ap Physics Response Answers Form
 - Setting Reading Goals 1973 Ap Physics Response Answers Form
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1973 Ap Physics Response Answers Form
 - Fact-Checking eBook Content of 1973 Ap Physics Response Answers Form
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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