

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
($J = F \cdot t$)

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

$$p = mv$$

$$1 + 1.6m = 6$$

$$1.6m = 5$$

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

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Tao Wei



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