

Physics I – Exam I – Fall 2005
Answer Key

Part A-1 – 1: 12, 2: D, 3: F, 4: B, 5: B 4 pts each.
Partial credit +4 points if 4 and 5 are wrong but the same (+2 each).

Part A-2 – 6: E, 7: D, 8: O, 9: G, 10: B, 11: H **2 pts each.**

14 Points

This problem relies on the impulse-momentum theorem (eq. 12). The X part has constant forces in the two time intervals, and so the graph of P_x is two straight line segments with slopes of 2 and 1 kg m/s² respectively. The graph of P_y is more complicated since the two parts are parabolas. Students should know this in analogy with the relationship between velocity and displacement, or alternatively they could figure it out by calculating the values at intermediate points.

Features Looking For

use impulse-momentum theorem

$$F_x = 0 \text{ at } t = 0.$$

Px at 1 sec = +2 more than Px at 0 sec.

Px at 2 sec = +1 more than Px at 1 sec.

straight line Px from 0 to 1 sec.

straight line Px from 1 to 2 sec.

$$P_V = 0 \text{ at } t = 0.$$

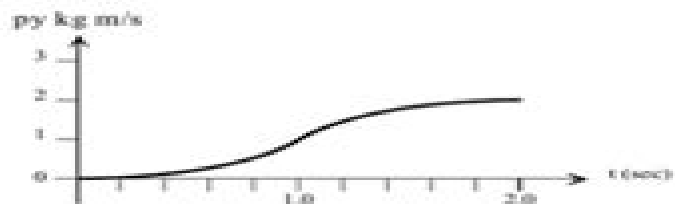
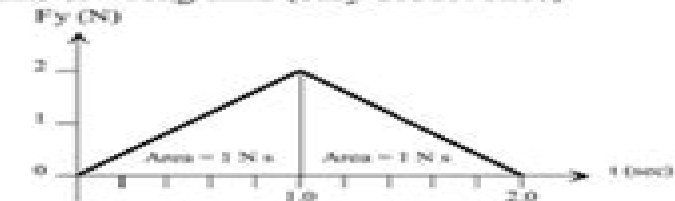
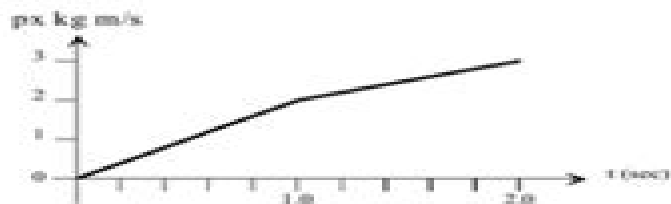
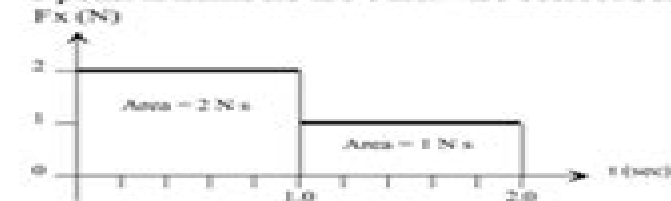
Pv at 1 sec = +1 more than Pv at 0 sec.

P_y at 2 sec = +1 more than P_y at 1 sec.

correct parabola for P_v from 0 to 1 sec. (slope = 0 at $t = 0$, slope = 1 at $t = 1$)

correct symmetry of curve around $t = 1$ sec. (any shape with proper symmetry.)

-1 point if numbers are otherwise correct but no units or wrong units (only deduct once)



Mastering Physics Answer Key Chapter 1

R Sanford



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Table of Contents Mastering Physics Answer Key Chapter 1

1. Understanding the eBook Mastering Physics Answer Key Chapter 1
 - The Rise of Digital Reading Mastering Physics Answer Key Chapter 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Answer Key Chapter 1
 - 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 Mastering Physics Answer Key Chapter 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Answer Key Chapter 1
 - Personalized Recommendations
 - Mastering Physics Answer Key Chapter 1 User Reviews and Ratings
 - Mastering Physics Answer Key Chapter 1 and Bestseller Lists
5. Accessing Mastering Physics Answer Key Chapter 1 Free and Paid eBooks
 - Mastering Physics Answer Key Chapter 1 Public Domain eBooks
 - Mastering Physics Answer Key Chapter 1 eBook Subscription Services
 - Mastering Physics Answer Key Chapter 1 Budget-Friendly Options
6. Navigating Mastering Physics Answer Key Chapter 1 eBook Formats

- ePub, PDF, MOBI, and More
- Mastering Physics Answer Key Chapter 1 Compatibility with Devices
- Mastering Physics Answer Key Chapter 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Answer Key Chapter 1
 - Highlighting and Note-Taking Mastering Physics Answer Key Chapter 1
 - Interactive Elements Mastering Physics Answer Key Chapter 1
- 8. Staying Engaged with Mastering Physics Answer Key Chapter 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Answer Key Chapter 1
- 9. Balancing eBooks and Physical Books Mastering Physics Answer Key Chapter 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Answer Key Chapter 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Answer Key Chapter 1
 - Setting Reading Goals Mastering Physics Answer Key Chapter 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Answer Key Chapter 1
 - Fact-Checking eBook Content of Mastering Physics Answer Key Chapter 1
 - 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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