

Name: _____

Date: _____

AP Physics 1, Per. _____

Unit 2 Homework #9

Free Fall Problems

For each of the following, a complete solution will consist of:

- a well-labeled diagram of the situation
- a list of all motion variables with givens, labeled with units and appropriate algebraic signs (+, -)
- a clear presentation by showing the equation used before producing a numerical answer

1. A body falls freely from rest on Earth.

(I will box the formula **before** plugging numbers in so that the relationship between the variables can be easily examined)

- a. Find its displacement from $t = 0$ to $t = 3s$.

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t = 3s
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 = \frac{1}{2} (-9.8) 3^2 \\
 = -44.1m
 \end{array}$$

- b. if it falls 2 xs longer (for 6 s), how much farther will it fall? *Need the relationship between t and Δy without any other variables that would be affected by increasing t . Then isolate Δy since you want to know what happens to Δy : The relationship is boxed above*

$$\Delta y = \frac{1}{2} g t^2$$

If time of fall is doubled, Δy will be increased by 4xs

- c. Find the time for it to reach a speed of 25 m/s

$$\begin{array}{l}
 v_i = 0 \\
 v_f = 25m/s \\
 a = -9.8m/s^2 \\
 \Delta y = \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 v = v_i + g t \\
 \boxed{v = g t} \\
 25 = 9.8t \\
 t = 2.55s
 \end{array}$$

- d. Find the time to reach double the speed (50 m/s) *Need relationship between v and t without any variables that would be affected by changing the speed (see boxed equation above):*

$$v = g t$$

if final velocity is doubled, t will be increased by 2xs

- e. Find the time required for it to fall 300 m

$$\begin{array}{l}
 v_i = 0 \\
 v_f = \\
 a = -9.8m/s^2 \\
 \Delta y = -300m \\
 t =
 \end{array}
 \qquad
 \begin{array}{l}
 \Delta y = v_i t + \frac{1}{2} g t^2 \\
 \boxed{\Delta y = \frac{1}{2} g t^2} \\
 -300 = \frac{1}{2} (-9.8) t^2 \\
 t = 7.82s
 \end{array}$$

Fall Problems Worksheet Answers

**Robin S. Coddington, Robert J. Volpe, Brian
C. Poncy**

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Table of Contents Fall Problems Worksheet Answers

1. Understanding the eBook Fall Problems Worksheet Answers
 - The Rise of Digital Reading Fall Problems Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Fall Problems Worksheet Answers
 - 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 Fall Problems Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fall Problems Worksheet Answers
 - Personalized Recommendations
 - Fall Problems Worksheet Answers User Reviews and Ratings
 - Fall Problems Worksheet Answers and Bestseller Lists
5. Accessing Fall Problems Worksheet Answers Free and Paid eBooks
 - Fall Problems Worksheet Answers Public Domain eBooks
 - Fall Problems Worksheet Answers eBook Subscription Services
 - Fall Problems Worksheet Answers Budget-Friendly Options

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