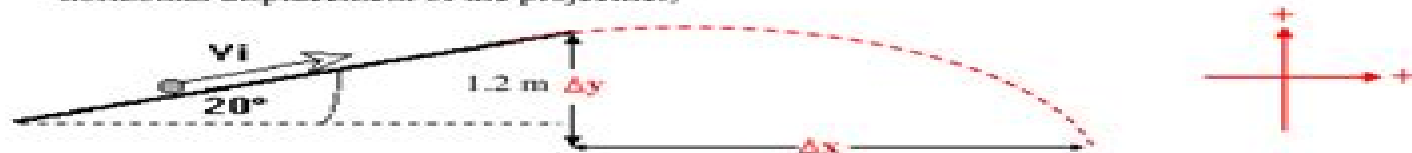


Particle Motion in Two Dimensions Model Worksheet 4: Projectile Motion Problems

1. A metal sphere is launched with an initial velocity of 1.5 m/s as it leaves the ramp. The end of the ramp is 1.20 m above the floor. Calculate the range of the sphere. (*Range* is the horizontal displacement of the projectile.)



$$v_x = \cos 20^\circ (1.5 \frac{m}{s}) = 1.4 \frac{m}{s}$$

$$v_{yi} = \sin 20^\circ (1.5 \frac{m}{s}) = 0.51 \frac{m}{s}$$

$$\Delta y = -1.2 \text{ m}$$

$$v_{yi} = 0.51 \frac{m}{s}$$

$$a = g = -10 \frac{m}{s^2}$$

$$v_x = 1.4 \frac{m}{s}$$

$$\Delta t = ?$$

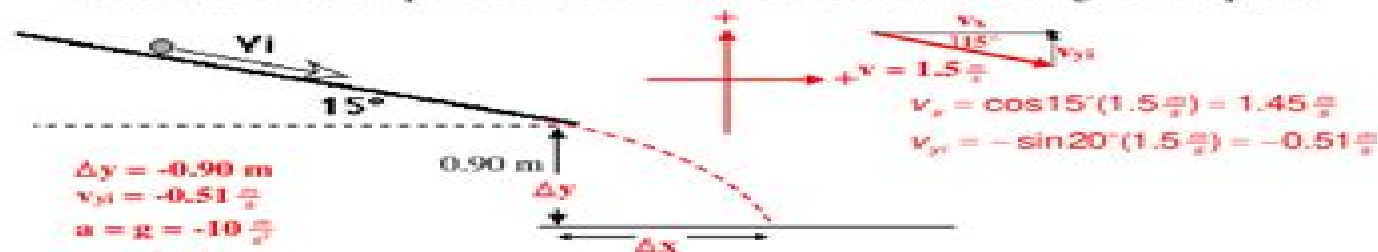
$$\Delta x = ?$$

$$\Delta y = v_{yi}t + \frac{1}{2}at^2 \Rightarrow -1.2\text{m} = (0.51 \frac{m}{s})t + \frac{1}{2}(-10 \frac{m}{s^2})t^2$$

$$(-5 \frac{m}{s^2})t^2 + (0.51 \frac{m}{s})t + 1.2\text{m} = 0 \text{ (use solver or quadratic)} \quad t = 0.54\text{s}$$

$$\Delta x = v_x \Delta t \Rightarrow \Delta x = 1.4 \frac{m}{s} (0.54\text{s}) = 0.76\text{m}$$

2. Now the ramp is tilted downwards and the sphere leaves the ramp at 1.5 m/s as shown below. The bottom of the ramp is 0.90 m above the floor. Calculate the range of the sphere.



$$\Delta y = -0.90 \text{ m}$$

$$v_{yi} = -0.51 \frac{m}{s}$$

$$a = g = -10 \frac{m}{s^2}$$

$$v_x = 1.45 \frac{m}{s}$$

$$\Delta t = ?$$

$$\Delta x = ?$$



$$v_x = \cos 15^\circ (1.5 \frac{m}{s}) = 1.45 \frac{m}{s}$$

$$v_{yi} = -\sin 15^\circ (1.5 \frac{m}{s}) = -0.51 \frac{m}{s}$$

$$\Delta y = v_{yi}t + \frac{1}{2}at^2 \Rightarrow -0.90\text{m} = (-0.51 \frac{m}{s})t + \frac{1}{2}(-10 \frac{m}{s^2})t^2$$

$$(-5 \frac{m}{s^2})t^2 + (-0.51 \frac{m}{s})t + 0.90\text{m} = 0 \text{ (use solver or quadratic)} \quad t = 0.37\text{s}$$

$$\Delta x = v_x \Delta t \Rightarrow \Delta x = 1.45 \frac{m}{s} (0.37\text{s}) = 0.54\text{m}$$

Cstephenmurray Projectile Motion Answers

Stephen Fenwick

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Cstephenmurray Projectile Motion Answers:

On the Motion of a Projectile in a Resisting Medium Stephen Fenwick, 1859
Zealand Limited, 1983

Projectile Motion Polycorp New

Reviewing **Cstephenmurray Projectile Motion Answers**: Unlocking the Spellbinding Force of Linguistics

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Table of Contents Cstephenmurray Projectile Motion Answers

1. Understanding the eBook Cstephenmurray Projectile Motion Answers
 - The Rise of Digital Reading Cstephenmurray Projectile Motion Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Cstephenmurray Projectile Motion 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 Cstephenmurray Projectile Motion Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cstephenmurray Projectile Motion Answers
 - Personalized Recommendations
 - Cstephenmurray Projectile Motion Answers User Reviews and Ratings
 - Cstephenmurray Projectile Motion Answers and Bestseller Lists

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