

## 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.)



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

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

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

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

$$\Delta t = ?$$

$$\Delta x = ?$$

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

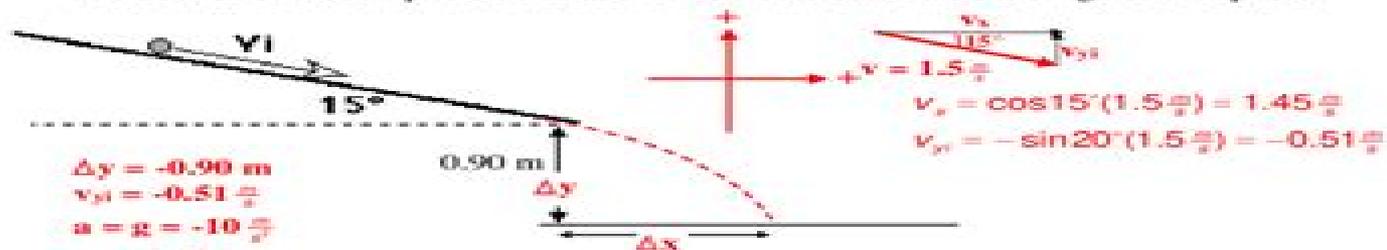
$$v_{yi} = \sin 20^\circ (1.5 \frac{\text{m}}{\text{s}}) = 0.51 \frac{\text{m}}{\text{s}}$$

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

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

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

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.



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

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

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

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

$$\Delta t = ?$$

$$\Delta x = ?$$

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

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

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

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

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

# Projectile Motion Questions And Solutions

**Greg Jacobs, Joshua Schulman**



## **Projectile Motion Questions And Solutions:**

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## **Table of Contents Projectile Motion Questions And Solutions**

1. Understanding the eBook Projectile Motion Questions And Solutions
  - The Rise of Digital Reading Projectile Motion Questions And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Projectile Motion Questions And Solutions
  - 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 Projectile Motion Questions And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Projectile Motion Questions And Solutions

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

- Fact-Checking eBook Content of Projectile Motion Questions And Solutions
  - 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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