

## 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.)

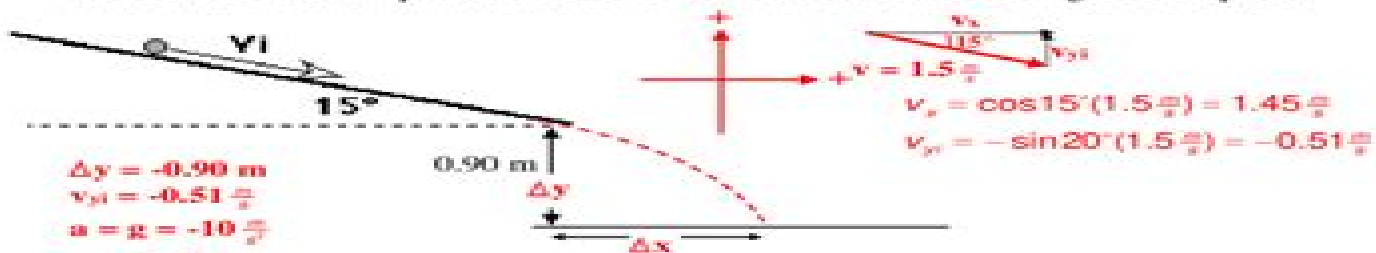


$$\begin{aligned}\Delta y &= -1.2 \text{ m} \\ v_{yi} &= 0.51 \frac{\text{m}}{\text{s}} \\ a &= g = -10 \frac{\text{m}}{\text{s}^2} \\ v_x &= 1.4 \frac{\text{m}}{\text{s}} \\ \Delta t &= ? \\ \Delta x &= ?\end{aligned}$$

$$\begin{aligned}v_x &= \cos 20^\circ (1.5 \frac{\text{m}}{\text{s}}) = 1.4 \frac{\text{m}}{\text{s}} \\ v_y &= \sin 20^\circ (1.5 \frac{\text{m}}{\text{s}}) = 0.51 \frac{\text{m}}{\text{s}}\end{aligned}$$

$$\begin{aligned}\Delta y &= v_{yi}t + \frac{1}{2}at^2 \Rightarrow -1.2\text{m} = (0.51 \frac{\text{m}}{\text{s}})t + \frac{1}{2}(-10 \frac{\text{m}}{\text{s}^2})t^2 \\ (-5 \frac{\text{m}}{\text{s}^2})t^2 + (0.51 \frac{\text{m}}{\text{s}})t + 1.2\text{m} &= 0 \text{ (use solver or quadratic) } t = 0.54\text{s} \\ \Delta x &= v_x \Delta t \Rightarrow \Delta x = 1.4 \frac{\text{m}}{\text{s}} (0.54\text{s}) = 0.76\text{m}\end{aligned}$$

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.



$$\begin{aligned}\Delta y &= -0.90 \text{ m} \\ v_{yi} &= -0.51 \frac{\text{m}}{\text{s}} \\ a &= g = -10 \frac{\text{m}}{\text{s}^2} \\ v_x &= 1.45 \frac{\text{m}}{\text{s}} \\ \Delta t &= ? \\ \Delta x &= ?\end{aligned}$$

$$\begin{aligned}v_x &= \cos 15^\circ (1.5 \frac{\text{m}}{\text{s}}) = 1.45 \frac{\text{m}}{\text{s}} \\ v_y &= -\sin 15^\circ (1.5 \frac{\text{m}}{\text{s}}) = -0.51 \frac{\text{m}}{\text{s}}\end{aligned}$$

$$\begin{aligned}\Delta y &= v_{yi}t + \frac{1}{2}at^2 \Rightarrow -0.90\text{m} = (-0.51 \frac{\text{m}}{\text{s}})t + \frac{1}{2}(-10 \frac{\text{m}}{\text{s}^2})t^2 \\ (-5 \frac{\text{m}}{\text{s}^2})t^2 + (-0.51 \frac{\text{m}}{\text{s}})t + 0.90\text{m} &= 0 \text{ (use solver or quadratic) } t = 0.37\text{s} \\ \Delta x &= v_x \Delta t \Rightarrow \Delta x = 1.45 \frac{\text{m}}{\text{s}} (0.37\text{s}) = 0.54\text{m}\end{aligned}$$

# Projectile Motion Questions And Solutions

**AN Whitehead**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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

**Physics—Problems, Solutions, and Computer Calculations** Wan Muhamad Saridan Wan Hassan, 2023-11-06

Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to physical mechanics the properties of matter and heat Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 300 worked problems and 100 exercises in the book as well as 306 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter

**Excel HSC Physics** Neville G. Warren, 2003 *Mathematical Questions and Solutions*, 1896

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**Student Study Guide & Selected Solutions Manual** David D. Reid, 2007

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