

## Section 2.3: Projectile Motion

### Tutorial 1 Practice, page 78

1. (a) Given:  $\Delta d_y = -3.2 \text{ m}$ ,  $a_y = -9.8 \text{ m/s}^2$ ,  
 $v_{iy} = 0 \text{ m/s}$

Required:  $\Delta t$

Analysis:  $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

$$\Delta d_y = 0 + \frac{1}{2} a_y \Delta t^2$$

$$\Delta t^2 = \frac{2 \Delta d_y}{a_y}$$

$$\Delta t = \sqrt{\frac{2 \Delta d_y}{a_y}}$$

$$\begin{aligned} \text{Solution: } \Delta t &= \sqrt{\frac{2 \Delta d_y}{a_y}} \\ &= \sqrt{\frac{2(-3.2 \text{ m})}{-9.8 \text{ m/s}^2}} \\ &= 2.56 \text{ s} \\ \Delta t &= 2.6 \text{ s} \end{aligned}$$

Statement: The hockey puck is in flight for 2.6 s.

(b) Given:  $\Delta t = 2.6 \text{ s}$ ,  $a_y = 0 \text{ m/s}^2$ ,  $v_{iy} = 0.0 \text{ m/s}$

Required:  $\Delta d_y$

Analysis:  $\Delta d_y = v_{iy} \Delta t$

Solution:

$$\begin{aligned} \Delta d_y &= v_{iy} \Delta t \\ &= \left(0.0 \frac{\text{m}}{\text{s}}\right)(2.56 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_y &= 0.0 \text{ m} \end{aligned}$$

Statement: The range of the hockey puck is 0.0 m.  
 2. Since the velocity of the puck does not affect its vertical motion, it would still take 2.6 s to hit the ground. The range of the puck would be half because it is travelling at half the velocity horizontally. That means the range would be 1.1 m.

### Tutorial 2 Practice, page 81

1. Given:  $\Delta d_y = -3.2 \text{ m}$ ,  $a_y = -9.8 \text{ m/s}^2$ ,

$v_{iy} = 7.3 \text{ m/s}$ ,  $\theta = 25^\circ$

First determine the time of flight:

Required:  $\Delta t$

Analysis:  $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

Solution:  $\Delta d_y = v_{iy} \Delta t + \frac{1}{2} a_y \Delta t^2$

$$= v_{iy} (\sin \theta) \Delta t + \frac{1}{2} a_y \Delta t^2$$

$$-3.2 = \left(7.3(\sin 25^\circ)\right) \Delta t + \frac{1}{2}(-9.8) \Delta t^2$$

$$0 = 3.085 \Delta t - 4.9 \Delta t^2 + 3.2$$

$$\Delta t = \frac{-3.085 \pm \sqrt{3.085^2 - 4(-4.9)(3.2)}}{2(-4.9)}$$

$$= \frac{-3.085 \pm 18.52}{-9.8}$$

$$\Delta t = -0.974 \text{ s (or)} \Delta t = 2.204 \text{ s}$$

The answer must be the positive value.

Statement: The superball is in flight for 2.2 s.

Determine the range:

Required:  $\Delta d_x$

Analysis:  $\Delta d_x = v_{ix} \Delta t$

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= v_{iy} (\cos \theta) \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ)(2.204 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 1.5 \text{ m} \end{aligned}$$

Statement: The superball travels 1.5 m

horizontally before landing.

Determine the final velocity:

Required:  $v_f$

Analysis:  $v_f = v_{fx} + v_{fy}$

Solution:

$$\begin{aligned} v_f &= v_{fx} + v_{fy} \\ &= \left(v_{iy} \cos \theta\right) + \left(v_{iy} + a_y \Delta t\right) \\ &= v_{iy} \cos \theta + v_{iy} \sin \theta + a_y \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ) (\text{right}) + \left(7.3 \frac{\text{m}}{\text{s}}\right)(\sin 25^\circ) (\text{up}) \\ &\quad + \left(-9.8 \frac{\text{m}}{\text{s}^2}\right)(2.204 \text{ s}) \text{ (two extra digits carried)} \\ &= 6.646 \text{ m/s (right)} + 3.085 (\text{up}) + 21 \text{ m/s (down)} \\ &= 6.646 \text{ m/s (right)} + 3.085 (\text{down}) + 17.91 \text{ m/s (down)} \\ v_f &= 6.646 \text{ m/s (right)} + 18.92 \text{ m/s (down)} \end{aligned}$$

Use the Pythagorean theorem:

$$v_f^2 = v_{fx}^2 + v_{fy}^2$$

$$v_f = \sqrt{v_{fx}^2 + v_{fy}^2}$$

$$= \sqrt{(6.646 \text{ m/s})^2 + (18.92 \text{ m/s})^2} \text{ (two extra digits carried)}$$

$$v_f = 2.0 = 20 \text{ m/s}$$

# Nelson Physics Answers

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The Internet Is Not the Answer Andrew Keen, 2018-09-01 The renowned Internet commentator and author of *How to Fix the Future* exposes the greed egotism and narcissism that fuels the tech world Chicago Tribune The digital revolution has contributed to the world in many positive ways but we are less aware of the Internet s deeply negative effects The Internet Is Not the Answer by longtime Internet skeptic Andrew Keen offers a comprehensive look at what the Internet is doing to our lives The book traces the technological and economic history of the Internet from its founding in the 1960s through the rise of big data companies to the increasing attempts to monetize almost every human activity In this sharp witty narrative informed by the work of other writers reporters and academics as well as his own research and interviews Keen shows us the tech world warts and all Startling and important The Internet Is Not the Answer is a big picture look at what the Internet is doing to our society and an investigation of what we can do to try to make sure the decisions we are making about the reconfiguring of our world do not lead to unpleasant unforeseen aftershocks Andrew Keen has written a very powerful and daring manifesto questioning whether the Internet lives up to its own espoused values He is not an opponent of Internet culture he is its conscience and must be heard Po Bronson 1 New York Times bestselling author

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### **Table of Contents Nelson Physics Answers**

1. Understanding the eBook Nelson Physics Answers
  - The Rise of Digital Reading Nelson Physics Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Physics 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 Nelson Physics Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Physics Answers
  - Personalized Recommendations
  - Nelson Physics Answers User Reviews and Ratings
  - Nelson Physics Answers and Bestseller Lists
5. Accessing Nelson Physics Answers Free and Paid eBooks

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