

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: Δt

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: Δd_y

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

Solution:

$$\begin{aligned} \Delta d_y &= v_{iy} \Delta t \\ &= \left(0.0 \frac{\text{m}}{\text{s}}\right)(2.56 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_y &= 0 \text{ m} \end{aligned}$$

Statement: The range of the hockey puck is 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: $\Delta d_y = -3.7 \text{ m}$, $a_y = -9.8 \text{ m/s}^2$,

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

First determine the time of flight:

Required: Δt

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

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

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

$$-3.7 = (7.3)(\sin 25^\circ) \Delta t + \frac{1}{2}(-9.8) \Delta t^2$$

$$0 = 3.085 \Delta t - 4.9 \Delta t^2 + 3.7$$

$$\Delta t = \frac{-3.085 \pm \sqrt{3.085^2 - 4(-4.9)(3.7)}}{2(-4.9)}$$

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

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

The answer must be the positive value.

Statement: The superball is in flight for 2.2 s.

Determine the range:

Required: Δd_x

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

Solution:

$$\begin{aligned} \Delta d_x &= v_{ix} \Delta t \\ &= v_{iy} (\cos \theta) \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ)(2.204 \text{ s}) \text{ (two extra digits carried)} \\ \Delta d_x &= 15 \text{ m} \end{aligned}$$

Statement: The superball travels 15 m horizontally before landing.

Determine the final velocity:

Required: v_f

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

Solution:

$$\begin{aligned} v_f &= v_{fx} + v_{fy} \\ &= \left(v_{iy} \cos \theta\right) + \left(v_{iy} + a_y \Delta t\right) \\ &= v_{iy} \cos \theta + v_{iy} \sin \theta + a_y \Delta t \\ &= \left(7.3 \frac{\text{m}}{\text{s}}\right)(\cos 25^\circ) (\text{right}) + \left(7.3 \frac{\text{m}}{\text{s}}\right)(\sin 25^\circ) (\text{up}) \\ &\quad + \left(9.8 \frac{\text{m}}{\text{s}^2}\right)(2.204 \text{ s}) (\text{down}) \\ &= 6.636 \text{ m/s (right)} + 3.085 (\text{up}) + 21.66 \text{ m/s (down)} \\ &= 6.636 \text{ m/s (right)} + 3.085 (\text{down}) + 21.66 \text{ m/s (down)} \\ v_f &= 6.636 \text{ m/s (right)} + 18.52 \text{ m/s (down)} \end{aligned}$$

Use the Pythagorean theorem:

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

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

$$= \sqrt{(6.636 \text{ m/s})^2 + (18.52 \text{ m/s})^2} \text{ (two extra digits carried)}$$

$$v_f = 2.0 \times 10^1 \text{ m/s}$$

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Table of Contents **Nelson Physics 11 Answers**

1. Understanding the eBook Nelson Physics 11 Answers
 - The Rise of Digital Reading Nelson Physics 11 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Physics 11 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 11 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Physics 11 Answers
 - Personalized Recommendations
 - Nelson Physics 11 Answers User Reviews and Ratings
 - Nelson Physics 11 Answers and Bestseller Lists

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