

Projectile Motion Review Key

1. The acceleration due to gravity acts:

- upward.
- depending on the motion of the object.
- downward.**
- toward outer space.



Since the net force is downward, the resulting acceleration is as well.

2. A bullet is fired at an angle of 45° . Neglecting air resistance, what is the direction of acceleration during the flight of the bullet? Draw a force diagram of the bullet in flight.

- Downward.**
- Dependent on the initial velocity.
- Upward.
- At a 45° angle.



Since the net force is downward, the resulting acceleration is as well.

3. A golfer drives her golf ball from the tee down the fairway in a high arcing shot. When the ball is at the highest point of its flight

- the horizontal velocity is non-zero and the vertical velocity is zero.**

Since the only force acting on a projectile is the downward force of gravity, the horizontal net force is zero and therefore the horizontal acceleration is zero. Hence, the horizontal velocity is constant. At the highest point the ball is changing direction and therefore its vertical velocity is instantaneously zero.

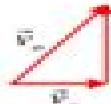
4. In the first practicum the ball was shot horizontally. What was the initial vertical velocity (v_{0y}) of the ball when it was shot?

a. 0 m/s

The initial velocity is completely horizontal.

5. A soccer ball is kicked at a 55° angle with an initial velocity of 8 m/s . What is the vertical velocity of the ball as it hits the ground?

- 8 m/s
- -8 m/s
- -6.6 m/s**



$$\bar{v}_{0y} = v_0 \sin 55$$

$$\bar{v}_{0y} = (8 \text{ m/s}) \sin 55$$

$$\bar{v}_{0y} = 6.6 \text{ m/s}$$

Since the completely parabolic path is symmetric

$$\bar{v}_y = -\bar{v}_{0y} = -6.6 \text{ m/s}$$

6. Approximately how far will an object near Earth's surface fall in 3.0 s ?

- 44 m
- 29 m
- 9.8 m
- 88 m

$$\bar{y} - \bar{y}_0 = ?$$

$$t = 3.0 \text{ s}$$

$$\bar{v}_0 = 0 \text{ m/s}$$

$$\bar{g} = -9.8 \text{ m/s}^2$$

$$\bar{y} - \bar{y}_0 = \bar{v}_0 t + \frac{1}{2} \bar{g} t^2$$

$$\bar{y} - \bar{y}_0 = \frac{1}{2} \bar{g} t^2$$

$$\bar{y} - \bar{y}_0 = -44 \text{ m}$$

$$\bar{y} - \bar{y}_0 = \frac{1}{2} (-9.8 \text{ m/s}^2) (3.0 \text{ s})^2$$

Answer Key To Projectile Motion Sim

Jerry D. Wilson

Answer Key To Projectile Motion Sim:

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Table of Contents Answer Key To Projectile Motion Sim

1. Understanding the eBook Answer Key To Projectile Motion Sim
 - The Rise of Digital Reading Answer Key To Projectile Motion Sim
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Projectile Motion Sim
 - 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 Answer Key To Projectile Motion Sim
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Projectile Motion Sim

- Personalized Recommendations
- Answer Key To Projectile Motion Sim User Reviews and Ratings
- Answer Key To Projectile Motion Sim and Bestseller Lists

5. Accessing Answer Key To Projectile Motion Sim Free and Paid eBooks

- Answer Key To Projectile Motion Sim Public Domain eBooks
- Answer Key To Projectile Motion Sim eBook Subscription Services
- Answer Key To Projectile Motion Sim Budget-Friendly Options

6. Navigating Answer Key To Projectile Motion Sim eBook Formats

- ePUB, PDF, MOBI, and More
- Answer Key To Projectile Motion Sim Compatibility with Devices
- Answer Key To Projectile Motion Sim Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Answer Key To Projectile Motion Sim
- Highlighting and Note-Taking Answer Key To Projectile Motion Sim
- Interactive Elements Answer Key To Projectile Motion Sim

8. Staying Engaged with Answer Key To Projectile Motion Sim

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answer Key To Projectile Motion Sim

9. Balancing eBooks and Physical Books Answer Key To Projectile Motion Sim

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Answer Key To Projectile Motion Sim

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Answer Key To Projectile Motion Sim

- Setting Reading Goals Answer Key To Projectile Motion Sim
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Answer Key To Projectile Motion Sim

- Fact-Checking eBook Content of Answer Key To Projectile Motion Sim
- 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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