

The average velocity is defined $v_{\text{average}} = \frac{v_0 + v_f}{2} = 1.75 \text{ m/s}$

To find the time, we find the kinematics equation that contains a and the given quantities. Examining our equations we see that we can use $\Delta x = \frac{v_0 + v_f}{2}t$. Rearranging this equation to find t yields

$$t = \frac{2\Delta x}{v_0 + v_f} = 3.143 \text{ s}$$

(b) When an object moving in 1D turns around we know that the object is instantaneously at rest and that its velocity at that point is $v_3 = 0$. The information that we know is thus:

$$v_0 = +5.0 \text{ m/s}$$

$$v_3 = 0 \text{ m/s}$$

This is our new final velocity

$$a = -2.068 \text{ m/s}^2$$

From part (a)

$$\Delta x = ?$$

$$v_{\text{average}} = ?$$

$$t = ?$$

Notice that the acceleration is a constant of the motion; it has the same value in both parts of the problem.

To find the displacement from the initial position where the ball turns around, we find the kinematics equation that contains x and the given quantities. Examining our equations we see that we can use $2a\Delta x = v_f^2 - v_0^2$. Rearranging this equation to find x yields

$$\Delta x = \frac{v_f^2 - v_0^2}{2a} = \frac{(0 \text{ m/s})^2 - (5.0 \text{ m/s})^2}{2 \times (-2.068 \text{ m/s}^2)} = 6.04 \text{ m}$$
 Notice that this value is bigger than the original 5.5 m

and is consistent with the sketch, i.e. the ball was farther up the incline when it turned around.

To find the time it takes for the ball to reach the point where it turns around, we find the kinematics equation that contains t and the given quantities. Examining our equations we see that we can use

$$v_f = v_0 + at$$
 Rearranging this equation to find t yields $t = \frac{v_f - v_0}{a} = \frac{(0 \text{ m/s}) - (5.0 \text{ m/s})}{-2.068 \text{ m/s}^2} = 2.42 \text{ s}$

Notice that this value is smaller than the time in part (a) and is consistent with the sketch, i.e. the ball hasn't come back down the incline yet.

Top

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2. A bullet in a rifle accelerates uniformly from rest at $a = 70000 \text{ m/s}^2$. If the velocity of the bullet as it leaves the muzzle is 500 m/s, how long is the rifle barrel? How long did it take for the bullet to travel the length of the barrel? What is the average speed of the bullet?

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Table of Contents Physics Kinematics Problems And Solutions

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

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