

1. An airplane diving at an angle of 36.9° with the horizontal drops a bag of sand from an altitude of 800 m. The bag is observed to strike the ground 5 s after its release.

- What is the speed of the plane?
- How far does the bag travel horizontally during its fall?
- What is its velocity just before it strikes the ground?



Vert

$$\begin{aligned} V_i &= \\ V_f &= \\ \Delta y &= 800\text{m} \\ a_y &= 9.8 \frac{\text{m}}{\text{s}^2} \\ t &= 5\text{s} \end{aligned}$$

$$\Delta y = V_i t + \frac{1}{2} a t^2 \Rightarrow$$

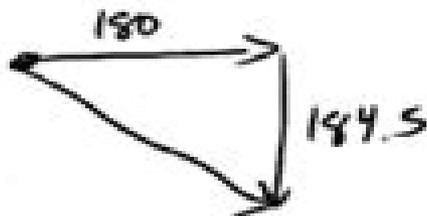
$$\begin{aligned} V_i &= \frac{\Delta y - \frac{1}{2} a t^2}{t} = \frac{800 - \frac{1}{2}(9.8)(25)}{5} \\ &= 135.5 \frac{\text{m}}{\text{s}} \end{aligned}$$



a) $\sin \theta = \frac{\text{opp}}{\text{hyp}} \Rightarrow \text{hyp} = \frac{\text{opp}}{\sin \theta} = \frac{135.5 \frac{\text{m}}{\text{s}}}{\sin(36.9^\circ)} = \boxed{226 \frac{\text{m}}{\text{s}}}$

b) Horiz
 $V_{ix} = 226 \frac{\text{m}}{\text{s}} \cos(36.9^\circ) = 180 \frac{\text{m}}{\text{s}}$
 $\Delta x = v_x t = (180 \frac{\text{m}}{\text{s}})(5\text{s}) = \boxed{902\text{m}}$

c) $V_{fx} = 180 \frac{\text{m}}{\text{s}}$ $V_{fy} = V_{iy} + a_y t = 135.5 \frac{\text{m}}{\text{s}} + 9.8(5) = 184.5$



$$V_f = \sqrt{180^2 + 184.5^2} = \boxed{258 \frac{\text{m}}{\text{s}}}$$

Physics Kinematics Problems And Solutions

LL Leslie



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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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