

CONCEPTUAL Physics PRACTICE PAGE

Chapter 8 Rotational Motion Banked Airplanes

An airplane banks as it turns along a horizontal circular path in the air. Except for the thrust of its engines and air resistance, the two significant forces on the plane are gravitational mg (vertical) and lift L (perpendicular to the wings).

Vector Component Analysis:

With a ruler and a pencil, resolve vector L into two perpendicular components, horizontal L_x and vertical L_y . Make these vectors dashed to distinguish them from L .

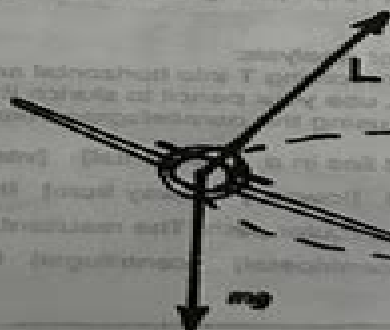
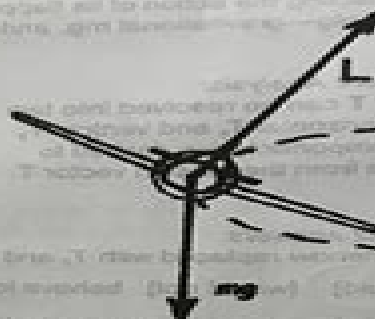
Circle the correct answers.

- The velocity of the airplane at any instant is
[along the radius of] [tangent to] its circular path.
- If L were somehow replaced with L_x and L_y ,
the airplane [would] [would not] behave the
same as being supported by L .
- Since the airplane doesn't accelerate vertically, component L_y must be
[greater than] [less than] [equal and opposite to] mg .
- Since the plane continues in circular motion, component L_x must equal [zero] [m^2/r]
and be a [centripetal] [centrifugal] [nonexistent] force. Furthermore, L_x is
[along the radius of] [tangent to] the circular path.

Vector Resultant Analysis:

- Rather than resolving L into horizontal and vertical components, use your pencil to sketch the resultant of mg and L using the parallelogram rule.
- The resultant lies in a [horizontal] [vertical] direction and [toward] [away from] the center of the circular path. The resultant of mg and L is a [centripetal] [centrifugal] force.
- The resultant of mg and L is the same as [L_x] [L_y].

Challenge: Explain in your own words why the resultant of two vectors can be the same as a single component of one of them.



Conceptual Physics Practice Page Rotational Motion

Torques

DP Hallahan



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1. Understanding the eBook Conceptual Physics Practice Page Rotational Motion Torques
 - The Rise of Digital Reading Conceptual Physics Practice Page Rotational Motion Torques
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Practice Page Rotational Motion Torques
 - 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 Conceptual Physics Practice Page Rotational Motion Torques
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Practice Page Rotational Motion Torques
 - Personalized Recommendations
 - Conceptual Physics Practice Page Rotational Motion Torques User Reviews and Ratings
 - Conceptual Physics Practice Page Rotational Motion Torques and Bestseller Lists
5. Accessing Conceptual Physics Practice Page Rotational Motion Torques Free and Paid eBooks
 - Conceptual Physics Practice Page Rotational Motion Torques Public Domain eBooks
 - Conceptual Physics Practice Page Rotational Motion Torques eBook Subscription Services
 - Conceptual Physics Practice Page Rotational Motion Torques Budget-Friendly Options
6. Navigating Conceptual Physics Practice Page Rotational Motion Torques eBook Formats

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