

# 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  $L$ .

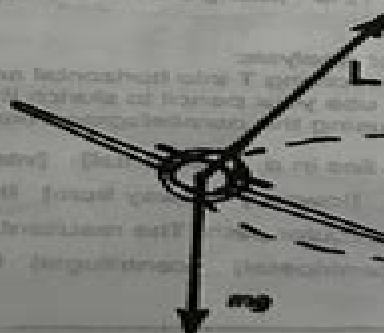
Circle the correct answers.

- 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 Development Practice Page 16 1 Answers

**Patrick Vollmar**



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