

## 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.

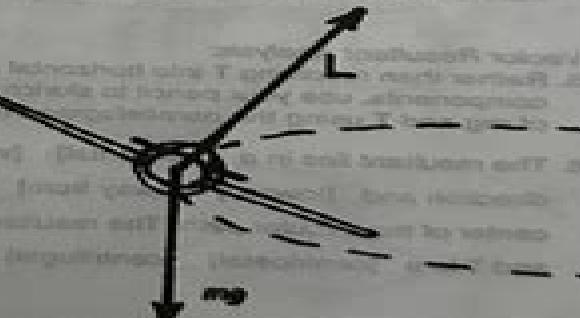
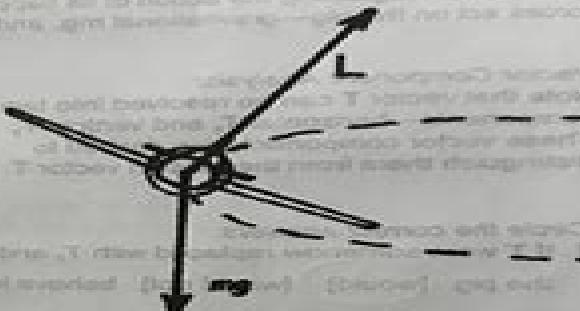
1. The velocity of the airplane at any instant is [along the radius of] [tangent to] its circular path.
2. If  $L$  were somehow replaced with  $L_x$  and  $L_y$ , the airplane [would] [would not] behave the same as being supported by  $L$ .
3. Since the airplane doesn't accelerate vertically, component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

#### Vector Resultant Analysis:

5. Rather than resolving  $L$  into horizontal and vertical components, use your pencil to sketch the resultant of  $mg$  and  $L$  using the parallelogram rule.

6. 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.
7. 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

**Martin Sherwood,Christine Sutton**

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web aug 19 2020 the four states of matter observed in everyday life are solids liquids gases and plasma other states of matter also exist although they require special conditions here is a look at the states of matter their properties and the names of phase transitions between them what is a state of matter