

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 .

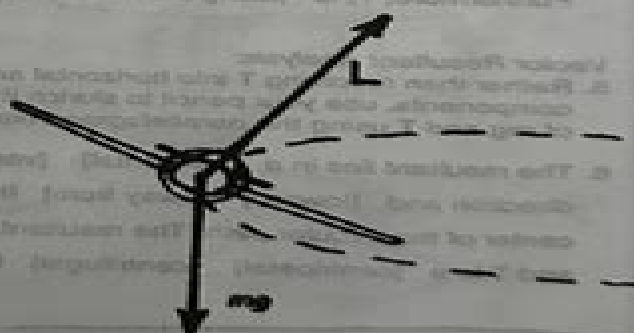
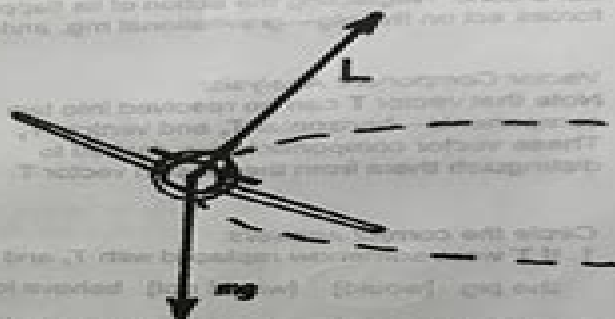
Circle the correct answers.

- 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

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