

Relative Velocity and Riverboat Problems

Read from Lesson 1 of the Vectors and Motion in Two-Dimensions chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/vectors/u3l1f.html>

<http://www.physicsclassroom.com/Class/vectors/u3l1g.html>

MOP Connection: Vectors and Projectiles: sublevel 6 (and maybe sublevel 5)

- Planes fly in a medium of moving air (winds), providing an example of relative motion. If the speedometer reads 100 mi/hr, then the plane moves 100 mi/hr relative to the air. But since the air is moving, the plane's speed relative to the ground will be different than 100 mi/hr. Suppose a plane with a 100 mi/hr air speed encounters a tail wind, a head wind and a side wind. Determine the resulting velocity (magnitude and CCW direction) of the plane for each situation.



CCW Direction:



CCW Direction:



CCW Direction:

- The situation of a plane moving in the medium of moving air is similar to a motorboat moving in the medium of moving water. In a river, a boat moves relative to the water and the water moves relative to the shore. The result is that the resultant velocity of the boat is different than the boat's speedometer reading, *thanks to the movement of the water that the boat is in*. In the diagram below, a top view of a river is shown. A boat starts on the west side (left side) of the river and heads a variety of directions to get to the other side. The river flows south (down). Match the boat headings and boat speeds to the indicated destinations. Use each letter once.



Boat Heading	Boat Speed	Destination (A, B, C, D or E)
→	14 mi/hr	
→	7 mi/hr	
↗	7 mi/hr	
→	20 mi/hr	
↗	12 mi/hr	

- A pilot wishes to fly due North from the Benthore Airport to the Donthat Airport. The wind is blowing out of the Southwest at 30 mi/hr. The small plane averages a velocity of 180 mi/hr. What heading should the pilot take? Use a sketch to help solve.



Vectors And Projectiles Answers

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Wilson, Aaron W. Todd**



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