

Physics
Group Quiz 3.4 - Boat Crossing River

Name _____

Show your work and circle your answers to receive full credit.

1-3: A boat points straight across a 76.0 m wide river with a current of 0.650 m/s. In crossing, the boat is carried 24.0 m downstream.

1. What time did it take the boat to cross the river?

2. What is the boat's speed with respect to the water??

3. What is the velocity (in angle magnitude notation) of the boat as it moves across the river? Draw a picture of the velocity.