Assignment 9

Section A

1. A river flows due north. A man wishes to travel to the town on the east side of the river. He travels west at 2 m/s from his boat. The town is 3 km due east of his starting point. What is his resultant velocity?

2. A man is swimming in a river. The river flows due north at 1 m/s. The man swims due east at 2 m/s. What is the man's resultant velocity?

3. A man is swimming in a river. The river flows due north at 1 m/s. The man swims due west at 2 m/s. What is the man's resultant velocity?

Section B

1. A man is standing on a boat in a lake. The boat is moving due east at 1 m/s. The man jumps off the boat and swims due north at 2 m/s. What is the man's resultant velocity?

2. A man is standing on a boat in a lake. The boat is moving due east at 1 m/s. The man jumps off the boat and swims due south at 2 m/s. What is the man's resultant velocity?

Section C

1. A man is standing on a boat in a lake. The boat is moving due east at 1 m/s. The man jumps off the boat and swims due west at 2 m/s. What is the man's resultant velocity?