Problems on Boats and Streams

Q1. A man rows downstream at 15 km/hr and against the stream at 9 km/hr. His speed in still water is ?

Q2. A boat covers 12 km against the stream and 22 km along the stream. It takes 5 hours in each case. The speed of the boat in still water is ? (HINT: against the stream = upstream , along the stream = downstream)

Q3. A boat goes 6 km in an hour in still water. It takes thrice as much time in covering the same distance against the current, as it takes along the current. Speed of the current is ?

Q4. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in still water?

Q5. A swimmer can swim at 5 km/hr in still water. When the river flows at 1 km/hr, then he takes 75 minutes to go to a certain point and then coming back to the starting point. How far is this place?

Answers
Ans1) 12 km/hr
Ans 2) 3.4 km/hr
Ans 3) 3 km/hr
Ans 4) 1 hour 15 minutes
Ans 5) 3 km