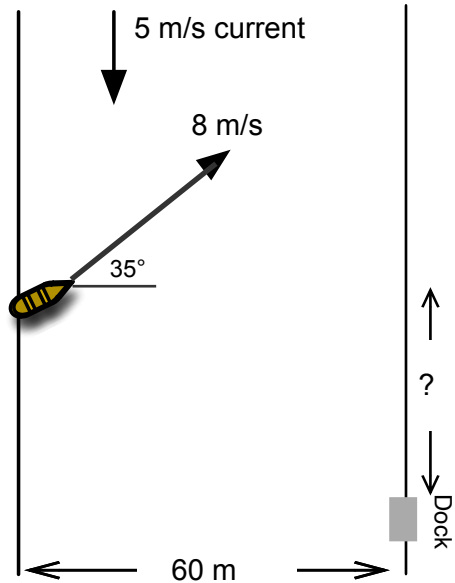


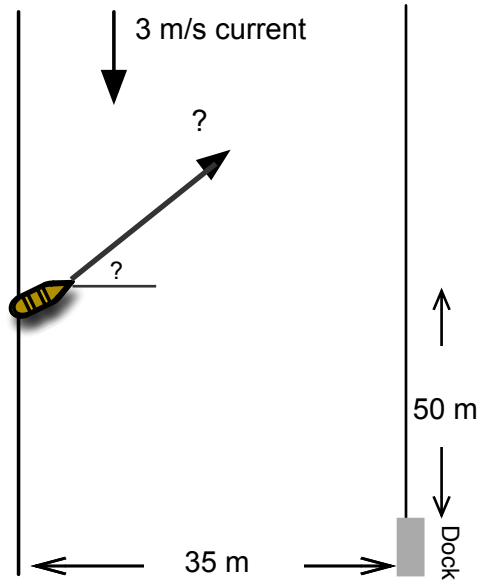
The motorboat's output speed is 10 m/s and the river speed is 4 m/s.

- What angles does the boat need to be pointed up the river to reach the dock that is straight across the river, NOT displaced downstream?
- How long will to crossing take?



The motorboat's output speed is  $8 \text{ m/s}$ , pointed  $35^\circ$  upstream, and the river speed is  $5 \text{ m/s}$ . The boat lands on a dock that is displaced downstream.

- How long did the crossing take?
- How far downstream was the boat displaced?



The river's speed is 3 m/s, and the boat crosses the river in 5 seconds while being displaced 50 meters downstream.

- What angle is the boat pointed upstream?
- What is the boat's motor output?