



Coastal Navigation Course Final Exam

Directions

Use the large Xeroxed practice chart provided or specify what you used. All courses and bearings are magnetic!!!

Email your answers to Mark@AventuraSailing.com

Name _____

Due Two Weeks From This Due Date _____

“Weekend Cruise from Dana Point Harbor to Catalina Island”

You leave Dana Point Harbor entrance on Saturday morning at 0600 on course 230°; speed 4 knots. You sail this course close hauled until 0800, at which time you come about to course 320°; speed remains the same, still close hauled.

Question

At 1100 you plot your DR position and take the following bearings for a fixed position determination:

- Newport Pier 30°
- Huntington Beach
Generating Station Stacks 330°

1. What is the direction of the wind at our first tack?
2. What is your 1100 **DR** position in terms of latitude/longitude?
3. There is a lighted **BUOY** nearby at 1100. What are its characteristics? (Give this answer in words.)

After fixing your position at 1100, you return to course 230°. There has been a welcome increase in wind and your speed has increased to 6 knots. You maintain this course and speed across the channel to Catalina.

At 1400 you fix your position using the following landmarks:

- East End of Catalina 170°
- Arrow Point, Catalina 270°

4. At what times should you be entering and leaving the shipping lanes?
5. What has been the set and drift of the “current” during your channel crossing?
6. What will be your course and ETA to White Cove at 6 knots speed?

The following afternoon you sadly depart Catalina for home. You leave Goat Harbor at 1500 bound straight for Dana Point Harbor Entrance on a broad reach: speed 6 knots.

7. What would be your course and ETA to Dana Point Harbor at that speed?

At 2000 you sight a 2.5 sec. red flashing light and a few minutes later, a 4 sec. green flashing light off your port bow at 60° (magnetic). Your GPS indicates the harbor entrance is 75°.

8. What course should you steer to the Harbor?