

Plotting in Annapolis Harbor

Plot the following positions based of the information provided:

1.

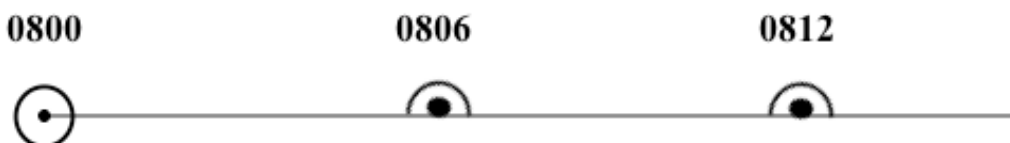
Bearings @ 0800	
Radio Tower (Western)	035°
Y "AN" Fl Y 4s	130°
Fl G 4s 15ft 4M "1L"	005°

Sailboat Information	
Course	150°
Speed	3 knots
Fix Interval	6 minutes

Based on your plot, answer the following questions:

- What is the sounding (depth of water) at your position? _____ ft
 - How far are you from shoal water (light blue)? _____ yards
 - What is the meaning of "Fl G 4s 15ft 4M"?
-

Example of a proper plot:



2.

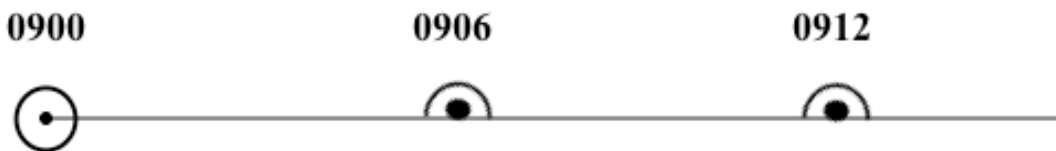
Bearings @ 0900	
Fl G 4s 15ft 4M "1AH"	165°
R "2" Fl R 2.5s	110°
Hotel (on Bay Ridge Beach)	245°

Sailboat Information	
Course	060°
Speed	5 knots
Fix Interval	6 minutes

Based on your plot, answer the following questions:

- What is the sounding (depth of water) at your position? _____ ft
- How far are you from the "1AH" light? _____ yards
- What is the meaning of "Fl R 2.5s" on the R "2" buoy?

Example of a proper plot:



3.

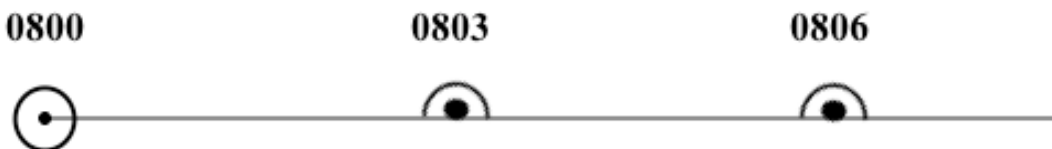
Bearings @ 0800	
Capital Dome	270°
G "5" Fl G 4s	150°
Tank (North of Engineering Lab)	030°

Sailboat Information	
Course	330°
Speed	4 knots
Fix Interval	3 minutes

Based on your plot, answer the following questions:

- What is the sounding (depth of water) at your position? _____ ft
- At this speed, how long before you reach the bridge?
 _____ minutes

Example of a proper plot:



4.

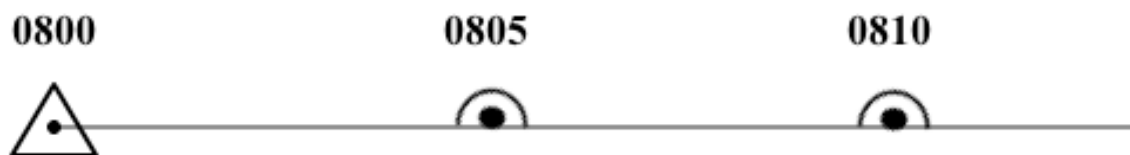
GPS Position @ 0800	
Latitude	38° 59' 00"
Longitude	076° 26' 30"

Sailboat Information	
Course	180°
Speed	3 knots
Fix Interval	5 minutes

Based on your plot, answer the following questions:

- What is the sounding (depth of water) at your position? _____ ft
- At this speed, how long before you reach the R "2" buoy (Fl R 2.5s)? _____ minutes

Example of a proper plot:



Notice the fix for a GPS is a *triangle* instead of a circle

5.

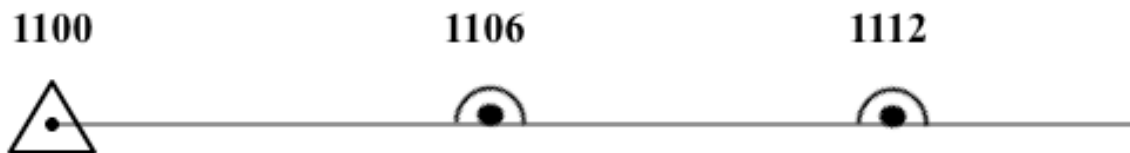
GPS Position @ 1100	
Latitude	38° 58' 30"
Longitude	076° 26' 00"

Sailboat Information	
Course	150°
Speed	4 knots
Fix Interval	6 minutes

Based on your plot, answer the following questions:

- What is the sounding (depth of water) at your position? _____ ft
- If you were to change course to 240°, how long before you reach the shallow water while sailing at a speed of 4 knots?
 _____minutes

Example of a proper plot:



Notice the fix for a GPS is a *triangle* instead of a circle

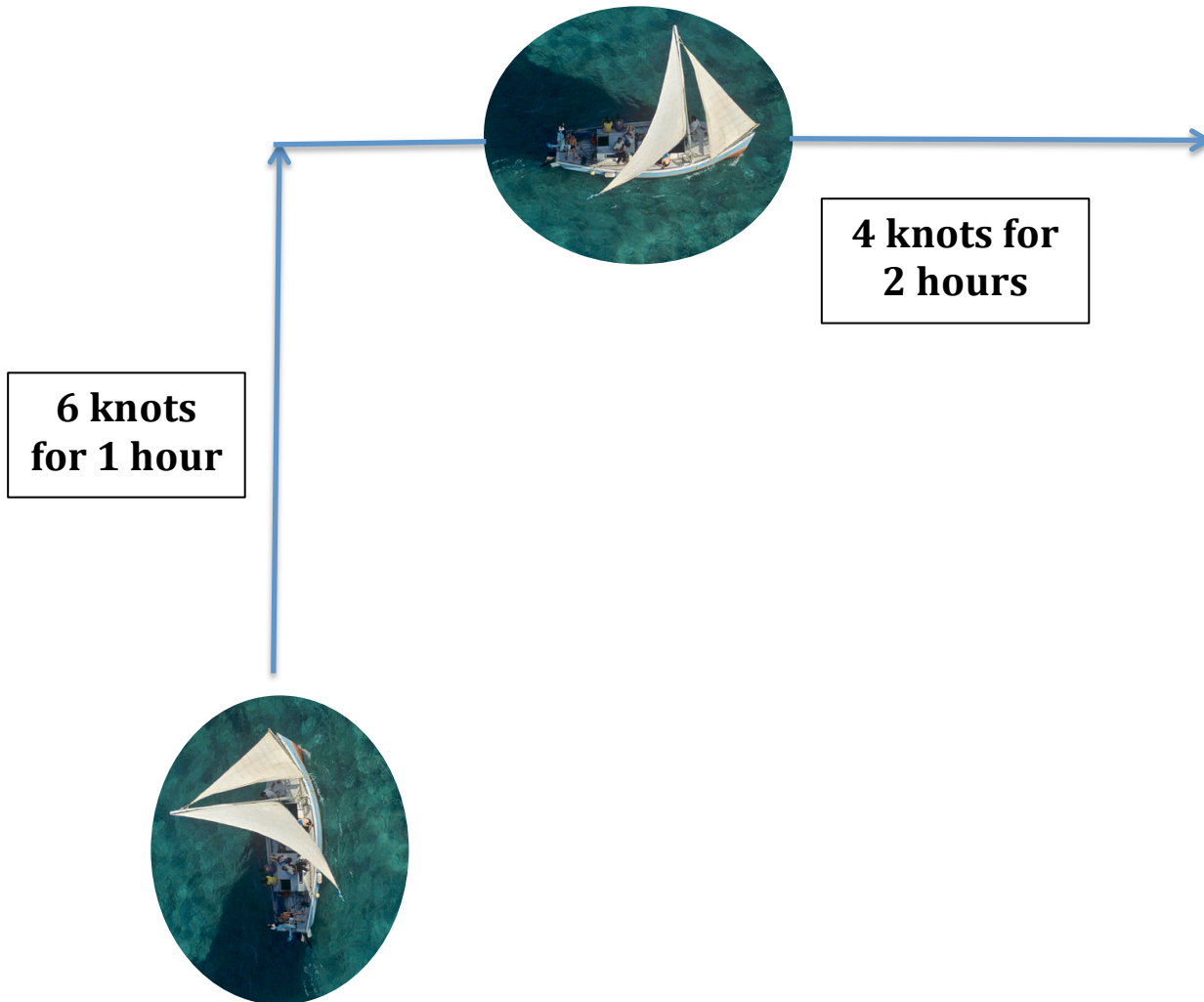
6. The sailboat *Bull* sets sail from Annapolis bound for Kent Island, 30 miles away. She sails the most direct route and sails a speed of 10 knots.

The sailboat *Bear* sets sail from Kent Island bound for Annapolis (30 miles away). She too sails the most direct route and sails at a speed of 6 knots.

Show your work

- (1) How many hours before *Bull* reaches Kent Island?
- (2) How many hours before *Bear* to reach Annapolis?
- (3) How long before *Bull* and *Bear* meet in the middle of their voyage across the Chesapeake Bay?

7. *Bull* set sail heading north at a speed of 6 knots. After 1 hour she turns east and sails at a speed of 4 knots for 2 hours.



- (1) How many total miles has *Bull* sailed in 3 hours?
- (2) How far is *Bull* from her original location?