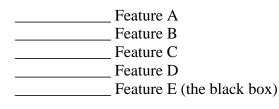
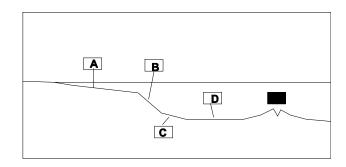
ES106 Practice Quiz Lab 4 Seafloor Dynamics

1. Identify the labeled features on the seafloor in the diagram below. Place answers in space provided.





- 2. If the seafloor is spreading at a rate of 4 cm/yr, and a basalt sample is collected on the seafloor is located 1500 km perpendicular to the mid-ocean ridge, how old is the rock sample in years? Show all of your work.
 - 3. Two continental land masses are separated by 1200 km of ocean basin with an intervening mid-oceanic ridge system. Geologic dating suggests that the continents were last amalgamated together 40 million years ago. What is the spreading rate in cm/yr? Show all of your work.

Matching Q. 4-7 Match the terms on the left with the best, true phrases on the right. Not all choices are used.

4. normal polarity	A. 175 degrees N.B. Warm current, west coast of U.S.
5. reverse polarity	C. mid-ocean ridge
6. latitude	D. Cold current, east coast of U.S. E. measured E-W of prime meridian
7. longitude	F. compass points north G. compass points south H. measured N-S of equator

8. True or False: most of the world's continents are located in the southern hemisphere.

9. The name of the largest major ocean body is the

_____ 10. Sea water on average is composed of ____ o/oo by weight dissolved salts.

- 11. The gently sloping submerged surface extending from shoreline toward the deep ocean basin is referred as the ____.
- 12. Portions of the seafloor that occur in the deep ocean and are essentially horizontal in slope are referred to as the _____ (two words).

13. True or False: seafloor spreading centers are associated with deep ocean trenches

_____14. A submerged volcanic island located on the seafloor is referred to as a ______.