



5. (8 pts) What are the three common geologic locations at which volcanoes form? Which of the three is shown?
6. (4 pts) Explain how the feature shown formed.
7. (6 pts) How did each of the mountain ranges circled form?
8. (4 pts) What is the process shown? How is it similar to the formation of the Gulf of Mexico?
9. (6 pts) Japan is part of an island arc. Sketch and label the type of plate tectonics that formed Japan. How is it different from what formed the Andes?

10. **(6 pts)** How did the Himalayan Mountains form? Sketch and label the type of plate tectonics that formed the Himalayas.
11. **(3 pts)** Where in the US is the most famous transform fault? Describe what is happening. Why does it result in earthquakes?
12. **(6 pts)** Precursor events for volcanoes are events that indicate an eruption will soon occur. What are three examples?
13. **(6 pts)** Why are the east and west coasts of the U.S. so different geologically? Draw a sketch as needed.
14. **(6 pts)** Explain how mountain building is related to the rock cycle. Be as specific as possible. Draw and label a sketch if needed. Consider igneous, metamorphic, and sedimentary rocks.

15. **(8 pts)** What are four types of evidence supporting the theory of plate tectonics. Explain.
16. **(4 pts)** What is the impact of dissolved gases upon eruptions? Which type of magma (mafic or felsic) is likely to be most explosive?
17. **(4 pts)** Recent earthquakes occurred in Haiti and Chile. One was far more likely to result in a tsunami than the other. Why?
18. **(5 pts)** Think of one of the review questions that you prepared for this test that has not been asked. Answer it here. You may use the extra slide if you wish.