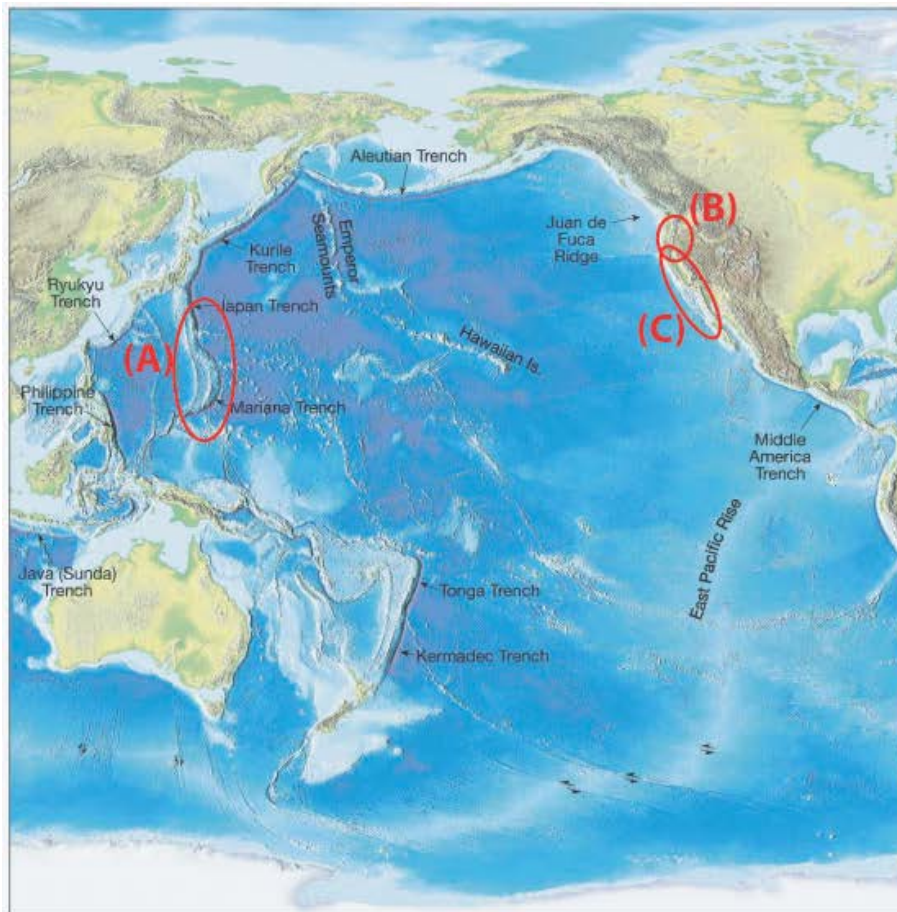


Name _____

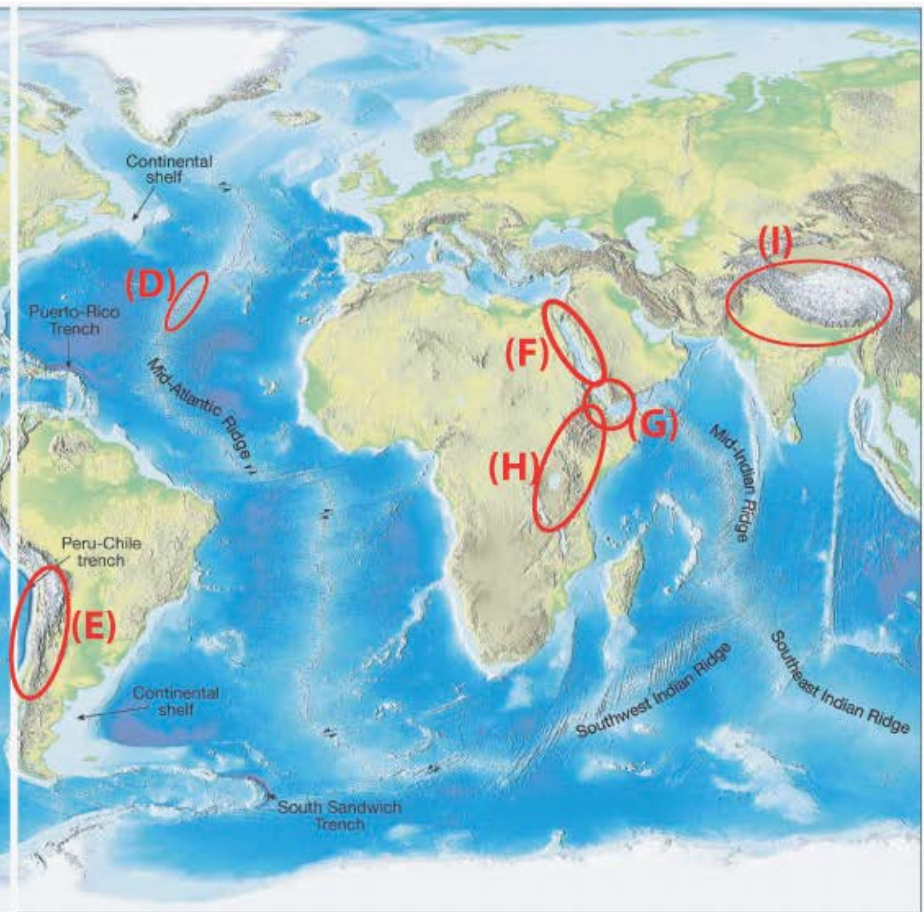
Plate Tectonics and Volcanoes problem set

Use the geographic features of the world map provided below to answer the following questions for each area circled.

- 1) Describe tectonic plates: Continent-Continent Continent-Ocean Ocean-Ocean NA
- 2) Describe plate movement: Convergent Divergent Transform NA
- 3) Is this a tectonic plate boundary? Y N
- 4) Is magmatism seen at this location? Y N (if no, skip to next boundary)
- 5) By what method is magma generated? Decompression melting Flux melting Heat transfer melting In-situ melting
- 6) Which might affect the magma composition? Partial melting Fractional crystallization assimilating mafic crust assimilating felsic crust
- 7) What magma type do you expect at this location? Mafic Intermediate Felsic
- 8) Would you expect plutons at this location? Y N
- 9) Would you expect volcanoes at this location? Y N (if no, skip to #5)
- 10) What type of volcanic landforms do you expect? Shield volcano Stratovolcano Cinder cone caldera



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