Name _____ **Plate tectonics and earthquakes problem set**

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

1) What two types of crust are interacting at this boundary? (Ocean–Ocean, Ocean–Cont. or Cont.–Cont.)
2) Which type of crust on which side of the boundary?
3) What type of tectonic boundary is each (extensional, compressional, or transform)
4) Describe it tectonically. Is there subduction? Is their rifting? What stage of rifting? Is something else happening?
5) What geographic features would you expect to find? (mountains? trenches? volcanoes? grabens? rift valleys? new oceanic crust? triple junctions?)
6) What features are on which side of the boundary? (both geographically (east-west-north-south) and tectonically (on top of which crust type)
7) Would you expect earthquakes?
8) If so, describe them (Small and often or larger and less frequent? Would they be shallow, deep, both, random or systematic?
9) For all of the above, do you know/understand why?