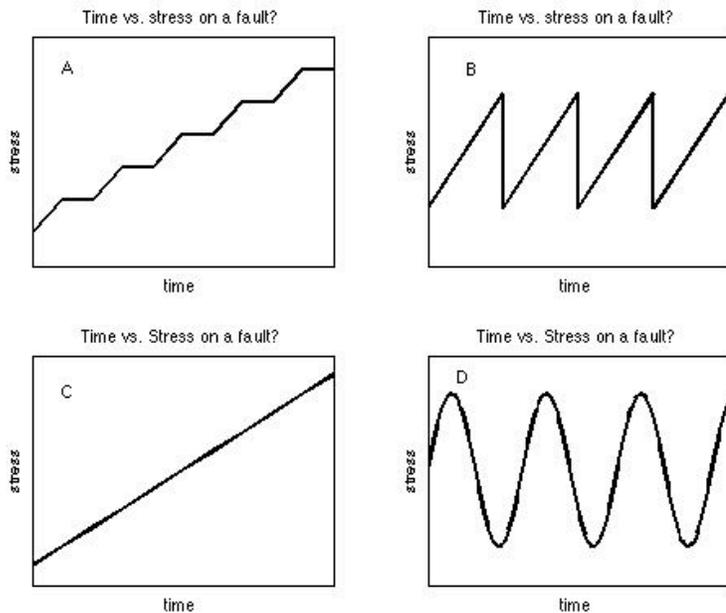


1. Draw a subduction zone in which an oceanic plate collides with a continental plate. Label the following on your sketch: the oceanic plate, the continental plate, location of seismicity (if any), location of volcanism (if any). Draw the boundary between the crust and the mantle and the boundary between the lithosphere and the asthenosphere. Draw arrows to show the direction of motion of each of the two plates. Here's how to make your drawing: go to <http://www.imaginationcubed.com/>, follow the instructions for creating your drawing. Then click "send" and send me (eliza@psu.edu) a link to your drawing. Do not worry if you are not an accomplished artist! Just give it a shot.

2.



2. Which of the four plots shown above best represents the cycle of stress accumulation and release on an earthquake-prone fault? In each plot time increases from left to right, and stress increases from bottom to top.

- A) A
 B) B
 C) C
 D) D

3. How old is the Earth?

4.

Briefly explain the greenhouse effect and the significance of its role in the Earth's climate system.

HTML Editor

Done

Show/Hide Answers