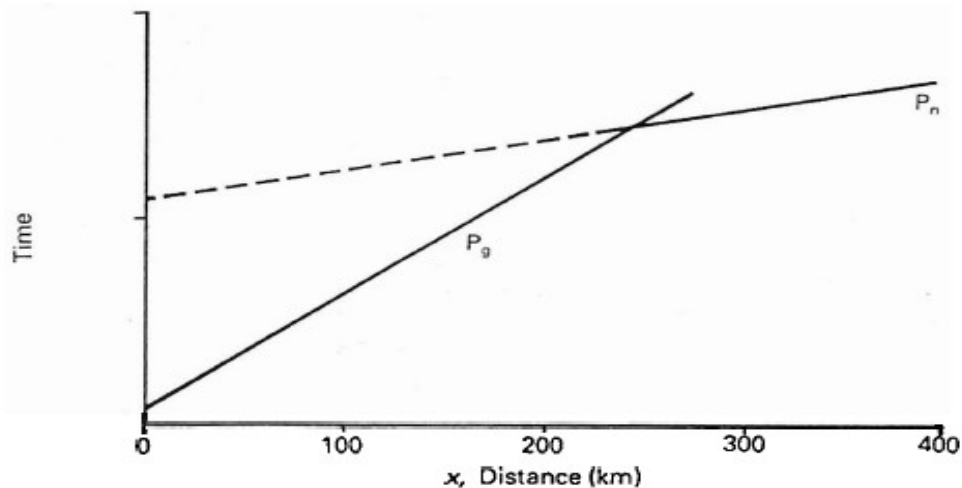


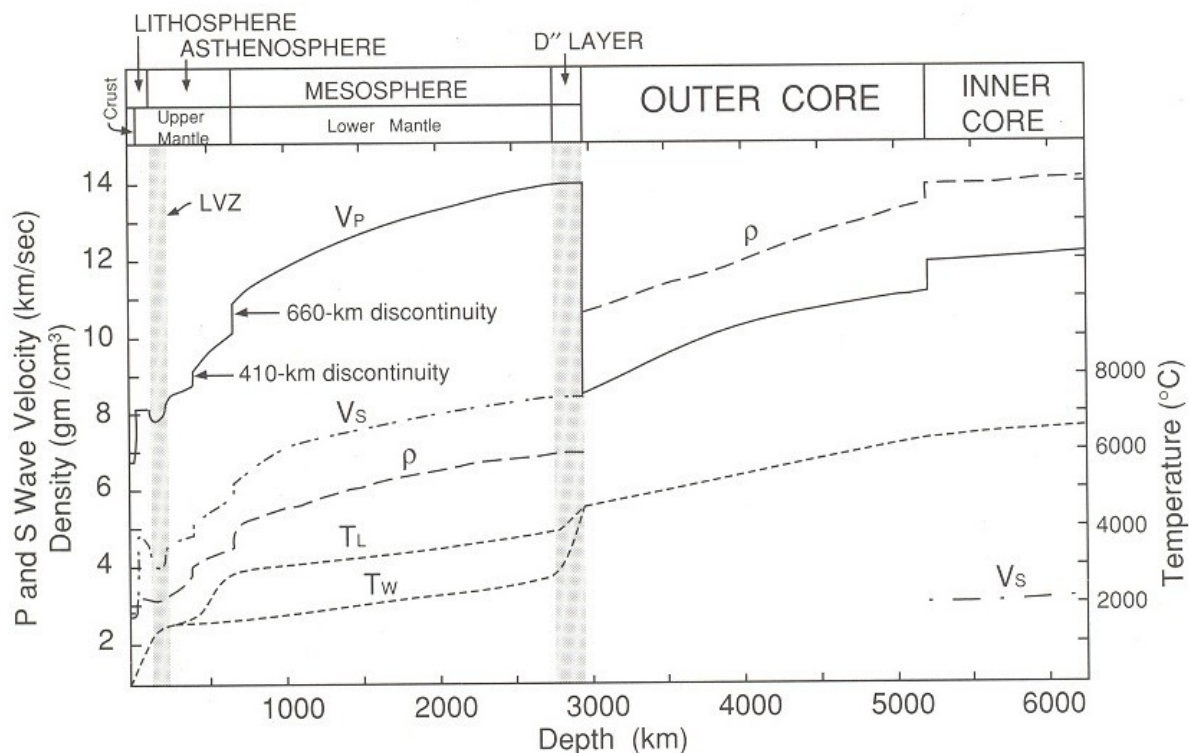
ES2104 Geophysics (Autumn 2024)

Assignment-1

1.1. For an earthquake on the surface, show that the T-X curve (for the direct and the refracted arrivals – as shown in the figure below) will be straight lines. Use velocity model of a crustal layer over a half-space mantle with P-wave velocities of 6.0 km/s and 8.0 km/s, respectively.



- 1.2. a. Make critical observations of the whole Earth velocity-density plot (given below).
b. What do these observations signify?
c. Explain the inferences that you make in (b) above.



Deadline:

Date: 22 September 2024 (Sunday)

Time: 6:00 pm

Submission through WeLearn