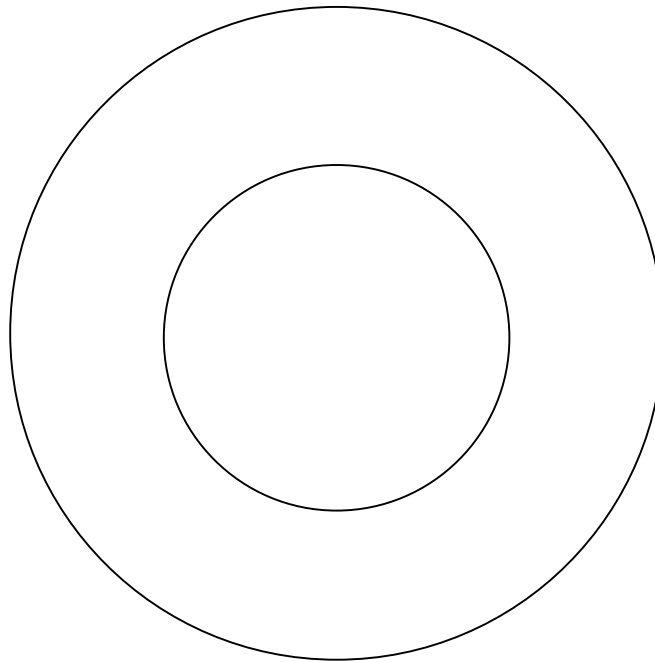


Geology 437 – global seismo problems; due 10/19/99

1. Construct a T-delta diagram for the phases P, S, PcP, ScS, R, L, and PkP, for the planet below.

For this planet:

- a. Radius = 6,000 kilometers
- b. Mantle thickness is 3,000 kilometers
- c. V_p in the mantle is 8 km/sec
- d. V_s in the mantle is 6 km/s
- e. V_p in the core is 4 km/s
- f. V_s in the core is 0.



2. See the back of the sheet.