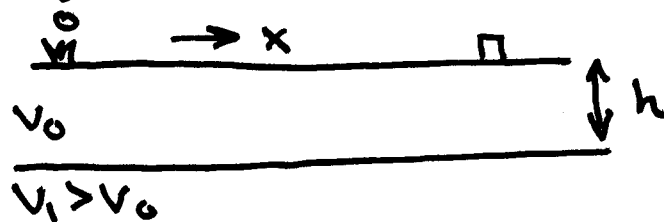
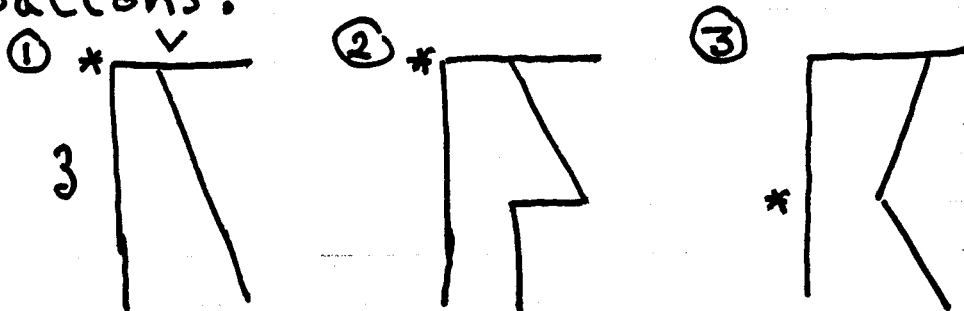


Do # 1, 2, 3 Plus Two Others

1. Compare and contrast P and S waves.
2. State Snell's Law of Refraction. Explain what it means.
3. Derive refraction travel-time equations for a single horizontal interface.



4. Thoroughly discuss the flat layer case where $v_1 < v_0 < v_2$.
5. Write a brief proposal for a refraction study in New Hampshire. Include purpose, geology, field methods, data analysis, expected results, etc..
6. Sketch travel-time curves for these situations:



* = sources and phones at this level

7. Explain cross-hole tomography. Include field and analysis methods, purpose, applications, etc..