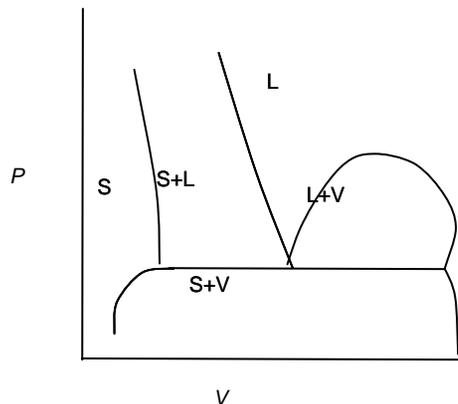
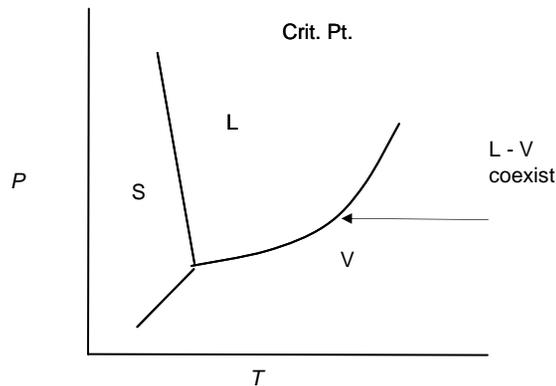


First Postulate:

For closed simple systems with given internal restraints, there exist stable equilibrium states that can be characterized completely by two independently variable properties in addition to the masses of the particular chemical species initially charged.

- "closed, simple systems"
- "*independently variable properties*"
- masses of each component known
- consistent with the Gibbs phase rule
- restatement of Duhem's theorem



$$F = n + 2 - \pi = 3 - \pi \text{ for pure } n=1 \text{ system}$$