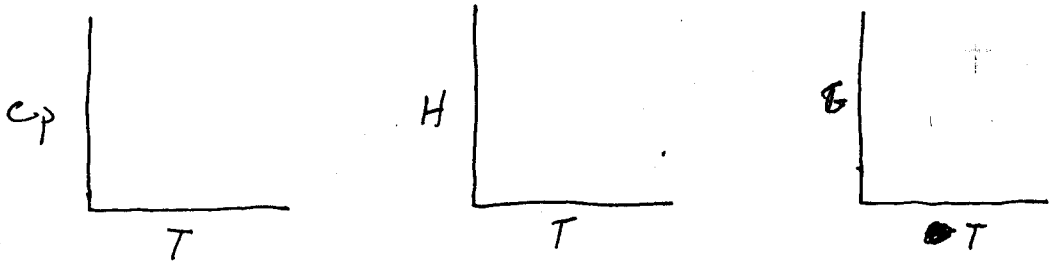
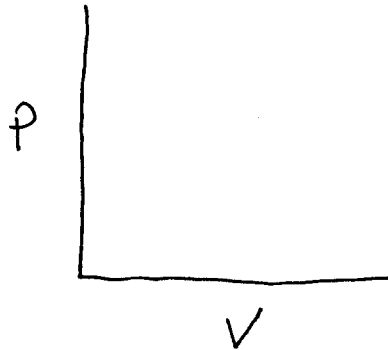


① Sketch C_p , H and G as a function of temperature for a 1st order phase transition at T_c .



② Sketch the Isotherms and adiabats for isothermal expansion and adiabatic expansion respectively



③ What is the heat capacity ratio for N_2 gas?

$$\gamma = \frac{C_{pm}}{C_{vm}} = \underline{\hspace{2cm}}$$

④ Fill in the table

Phenomena	FLUX	Gradient
Viscosity		
Diffusion		
Thermal conductivity		