

$$\frac{\Delta G}{RT} = (1-v_2) \ln(1-v_2) + \frac{v_2}{N} \ln v_2 + \chi v_2 (1-v_2)$$

$$v_{crit} = \frac{\sqrt{N_B}}{\sqrt{N_A} + \sqrt{N_B}} \quad \chi_{crit} = \frac{(\sqrt{N_A} + \sqrt{N_B})^2}{2N_A N_B}$$

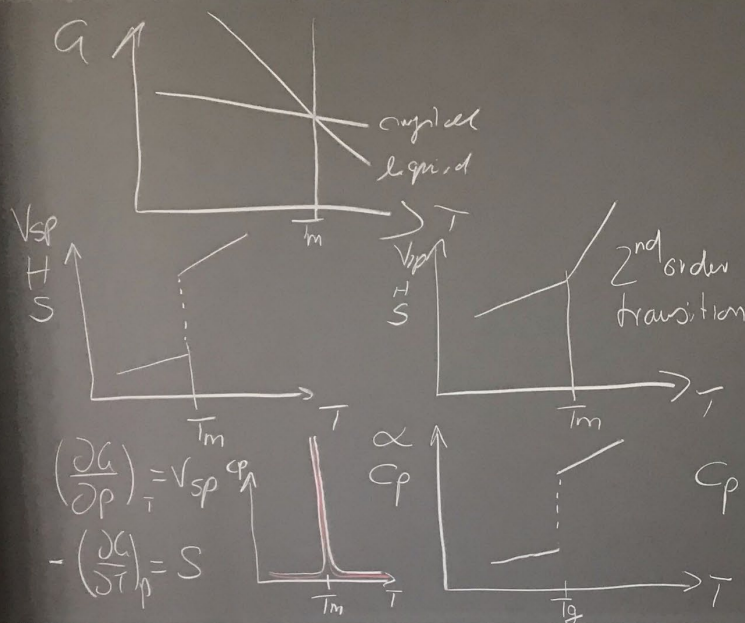
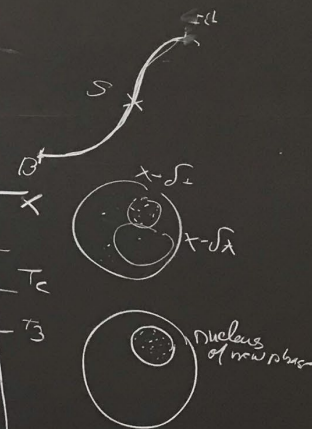
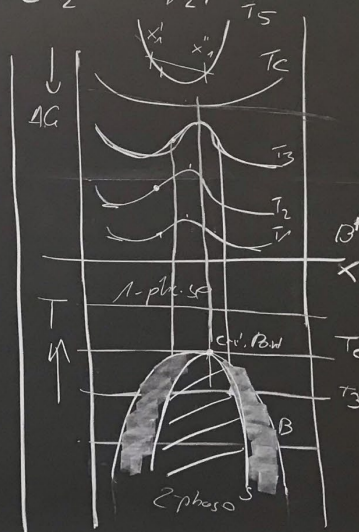
F.1. $N_B = 1$ $N_A \rightarrow \infty$
Solvent

$$v_{crit} = \frac{1}{1 + \sqrt{N}} \quad \chi_{crit} = \frac{1}{2} \left(\frac{1}{N} + \frac{2}{\sqrt{N}} + 1 \right)$$

$$v_{crit} = 0$$

$$\chi_{crit} = \frac{1}{2}$$

$$N_B = N_A = N \rightarrow \infty \quad v_{crit} = \frac{1}{2} \quad \chi_{crit} = 0$$



$$\left(\frac{\partial q}{\partial t} \right)_p = C_p \left(\frac{\partial T}{\partial t} \right)_p$$

