

140a HW 7 Due 3/7/19

★ All numbered exercises are from Blundell and Blundell.

1. 21.4.
2. 22.1.
3. 22.4.
4. 22.5.
5. By consider the various thermodynamic potentials, derive Maxwell relations for (a) $(\frac{\partial \mu}{\partial S})_{V,N}$, (b) $(\frac{\partial \mu}{\partial V})_{S,N}$, (c) $(\frac{\partial \mu}{\partial T})_{V,N}$, (d) $(\frac{\partial \mu}{\partial V})_{T,N}$, (e) $(\frac{\partial \mu}{\partial S})_{p,N}$, (f) $(\frac{\partial \mu}{\partial p})_{S,N}$, (g) $(\frac{\partial \mu}{\partial S})_{p,N}$, (h) $(\frac{\partial \mu}{\partial T})_{p,N}$, (h) $(\frac{\partial \mu}{\partial p})_{T,N}$.
6. 29.6