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Chapter 1 (Conceptual)

Q1) You are reading an article where the authors minimize the Gibb's free energy to solve for an order parameter. Which quantities can you assume were fixed in the calculation? (Circle all that apply)

- a) Pressure
- b) Volume
- c) Temperature
- d) Particle number
- e) Density
- f) Chemical potential
- g) Energy density

Q2) You are reading an article where the authors minimize the Helmholtz free energy to solve for an order parameter. Which quantities can you assume were fixed in the calculation? (Circle all that apply)

- a) Pressure
- b) Volume
- c) Temperature
- d) Particle number
- e) Density
- f) Chemical potential
- g) Energy density