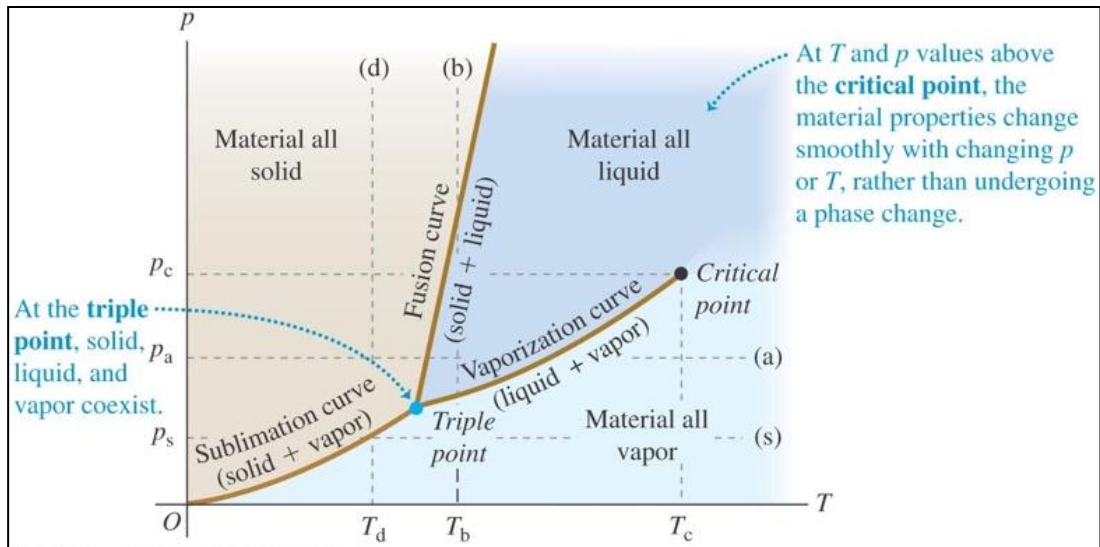

PHYS 1220 Group Work Sheet

Phase diagrams

With your group, discuss how to answer these questions and write your group answer in the space provided. Explain/show how you got your answer: don't just write down a number! (Especially not one without units!)

Consider the generic P-T diagram below.



- Describe what happens to phases and volume raising the temperature from zero at a constant pressure below the triple point pressure.
- Describe what happens to phases and volume raising the temperature from zero at a constant pressure between the triple point pressure and the critical point pressure.
- What is the meaning of the positive slope of the fusion curve?
- What happens along a process crossing the vaporization curve by increasing the temperature from zero at constant pressure?
- What happens crossing the vaporization curve by raising the pressure from zero at a constant temperature?