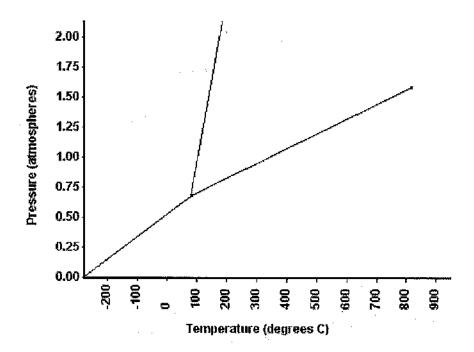
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Unit 8 Module 4 Review Sheet

1. Refer to the phase diagram below when answering the questions on this section:



- a) What is the normal freezing point of this substance? Approximately 100-110°C
- b) What is the normal boiling point of this substance? Approximately 400°C
- c) At what temperature and pressure does the triple point occur for this substance?

Approximately 100C and just below 0.75 atm

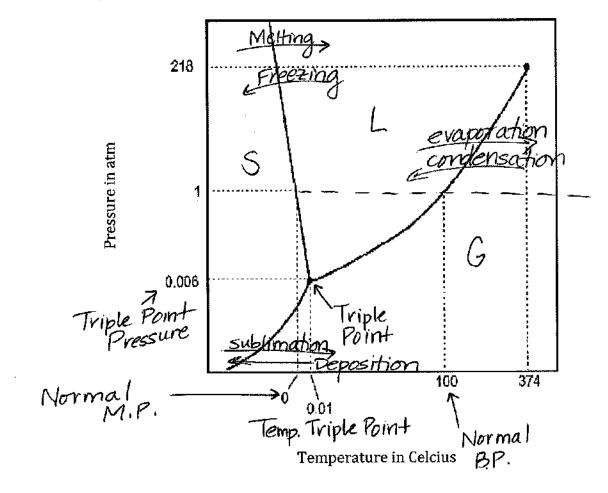
d) If I had a sample of this substance at a pressure of 1.25 atm and a temperature of 300° C and lowered the pressure to 0.25 atm, what phase transition(s) would occur?

Condensation

e) If I had a sample of this substance at a pressure of 1.00 atm and a temperature of 200°C and lowered the temperature to 0°C, what phase transition(s) would occur?

Freezing

- 2. Below is a rough sketch of a phase diagram of H₂O. Label the following:
- a) Triple point
- b) Liquid, solid, and gaseous sections
- c) Each of the six phase changes
- d) Normal boiling point
- e) Normal melting point



f)	At 50°C and 5 atm, what is the phase?	Liquid
g)	At 200°C and 0.05 atm, what is the phase?	Gas
h)	At -50°C and 100 atm, what is the phase?	Solid