

Chapter 9 — Problems 2, 6, 18

Michael Brodskiy

Instructor: Mr. Morgan

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- 2.
- 6.
18. Consider the phase diagram of the compound X. Use the phase diagram to answer the following questions.
 - (a) What is the physical state of the compound at 35[mmHg] and 120[°C]?
 - (b) What is the normal freezing point of the compound?
 - (c) What is the point *A* called?
 - (d) What is the point *B* called?
 - (e) What is the point *C* called?
 - (f) What change occurs when, at a constant pressure of 33[mmHg], the temperature is decreased from 40[°C] to −20[°C]?
 - (g) Will the solid float on the liquid?
 - (h) Can the compound exist as a liquid at 180[°C] and 2[ATM]?