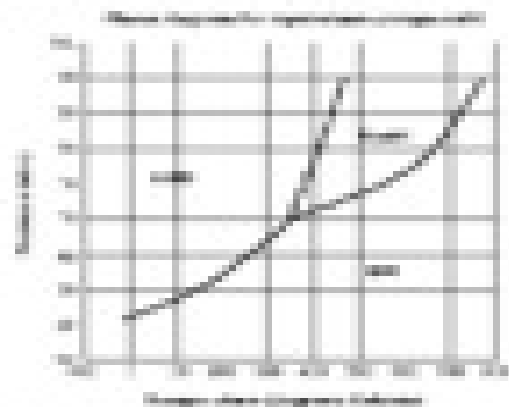


Phase Diagram Worksheet

For each of the questions on this worksheet, refer to the phase diagram for hypothetical compound X.



- 1) What is the critical temperature of compound X? _____
- 2) If you were to have a bottle containing compound X in your closet, what phase would it most likely be in? _____
- 3) At what temperature and pressure will all three phases coexist? _____
- 4) If I have a bottle of compound X at a pressure of 40 atm and temperature of 200° C, what will happen if I raise the temperature to 400° C? _____
- 5) Why can't compound X be heated at a temperature of 200° C? _____
- 6) If I wanted to, could I boil compound X? _____