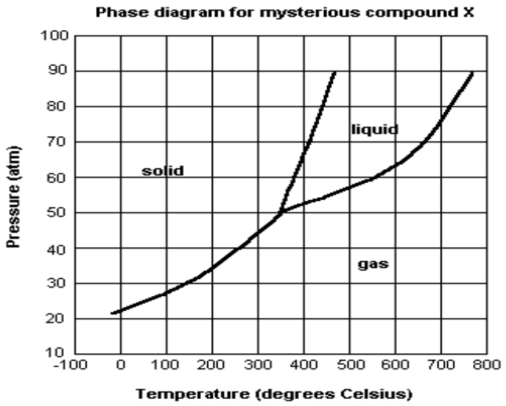
Phase Diagram Worksheet

For each of the questions on this worksheet, refer to the phase diagram for mysterious 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 45 atm and temperature of 100^{o} C, what will happen if I raise the temperature to 400^{o} C?

_____

5) Why can't compound X be boiled at a temperature of 200^{o} C?

_____

6) If I wanted to, could I drink compound X?

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