

# Participation Assignment

## CHEM 1100-General Chemistry II

Name:

#17

Section: 31, TR

Due Date: Thursday 5/24/2018

1. Define each of the following:

a. Boiling

b. Melting

c. Sublimation

d. Normal

e. Triple Point

f. Critical Temperature

g. Critical Pressure

2. Draw a pressure versus temperature phase diagram for bromine using the following information:

$$P_t = 0.007 \text{ atm}$$

$$T_t = -33 \text{ }^\circ\text{C}$$

$$P_c = 102 \text{ atm}$$

$$T_c = 315 \text{ }^\circ\text{C}$$

normal boiling point =  $59 \text{ }^\circ\text{C}$

$$\rho_{\text{solid}} > \rho_{\text{liquid}}$$

Do not draw it to scale. Label the axes, the single phase regions, and all the given points.