Problem 1.
You have a liquid mixture of 20 mole % carbon tetrachloride (CCl₄) and 80 mole % carbon tetrachloride (CBr₄) at T=350 K. Find the vapor pressure of the mixture and the composition of the vapor in equilibrium with this liquid.

Problem 2.
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Problem 3. (Extra credit)
You have a liquid mixture of 20 mole % carbon tetrachloride (CCl₄) and 80 mole % carbon tetrachloride (CBr₄) at p=1.0 bar. Find the temperature of the mixture and the composition of the vapor in equilibrium with this liquid. (Hint: This involves an iterative solution for the temperature. Use the Solver function in Excel.)