Participation Assignment CHEM 1090-General Chemistry I

Name:	#21
Section: 32, MWF	Due Date: Monday 3/12/2018
1. A typical propane gas cylinder used in outdoor grills has a 17.8 L. Assume there are 5.60 mol of propane vapor and calc degrees Celsius that is needed to reach 21.0 atm.	* *
2. Calculate the density of ammonia gas, NH ₃ , in grams/liter	at −33.33 °C and 1.013 bar.

3. What is the mole fraction of each component in a gas mixture of 2.55 g of NH_3 , 52.00 g of N_2 , and 13.35 g of H_2 ?
4. What is the total pressure and the pressure of each component (in atm) in a gas mixture of 2.55 g of NH ₃ , 52.00 g of N ₂ , and 13.35 g of H ₂ in a 10.00 L rigid container at 85 °C?

Alan D. Earhart 2 of 2 3/12/2018