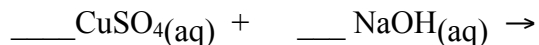


Pretest 3 CHM 1032

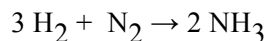
1. What are the products, include the phases(s, g, l, aq) and balance the equation: (6 pts)



2. What are the products, include the phases (s, g, l, aq) and balance the equation: (6 pts)



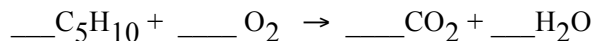
3. Consider the reaction:



How many grams of  $\text{NH}_3$  are produced from the reaction of 9.58 g of  $\text{H}_2$ ?

*(Assume hydrogen is the limiting reagent)*

- 4 Please balance the following equation. (6 pts)



**Problem 5. (8 pts)**

How many moles of air gas are present in the lungs if they occupy a volume of 1.183 L at 37°C and 798 mmHg?

**Problem 6 (8 pts)**

If a balloon containing 4.12 L of gas at 25°C is cooled to -78°C, what is the new volume?