If you feed 10.0g of N2 gas and 10.0g of H2 into a reactor to make ammonia (NH3):

a. What is the limiting reactant?

b. What is the excess reactant?

c. What is the maximum number of grams of NH3 that can be produced if 100% of the limiting reactant was reacted?

d. If 5.0g of the limiting reactant actually react, what is the fractional conversion of the limiting reactant

e. Why would you want to make ammonia, what is it useful for?