Ammonia, NH, is a clear, colorless gas with a pungent smell produced by the reaction of hydrogen gas, H and nitrogen gas, N. Which of the following chemical equation best represent this reaction?

## Select one:

a. 
$$H(g) + N(g) \rightarrow NH(g)$$

b. 
$$3H(g) + N(g) \rightarrow 2NH(g)$$

c. 3H (g) + 3N (g) 
$$\rightarrow$$
 2NH (g)

d. H (g) + N (g) 
$$\rightarrow$$
 N2H (g)

## Solution:

 $3H_2+N_2=2NH_3$  It is the reaction of ammonia synthesis.

Answer: b. 3H (g) + N (g)  $\rightarrow$  2NH (g).

Answer provided by AssignmentExpert.com