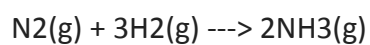


### Answer on Question#50360 – Chemistry – Other

If an excess of nitrogen gas reacts with 250 L of hydrogen gas, according to the reaction below, how many L of ammonia will be produced?



**Solution:**

According to the Gay-Lussac's law:

$$V(\text{H}_2) : V(\text{NH}_3) = 3 : 2;$$

$$\frac{250}{x} = \frac{3}{2}; x = 166.7 \text{ L}$$

$$V(\text{NH}_3) = 166.7 \text{ L}$$

**Answer:** 166.7 L

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