

Name _____

Date _____

Period _____

Closing 18.2b / Hchem 13.5

1. Indicate if each of the following increases or decreases ($\uparrow$ or $\downarrow$) during the changes for the reaction:
 $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g}) + 92 \text{ kJ}$. Sketch a graph for each to illustrate the equilibrium changes.

	Shift	N_2	H_2	NH_3	Heat
A. N_2 is added Sketch:					
C. H_2 is removed Sketch:					
D. NH_3 is added to the container Sketch:					
F. Heat is added Sketch:					
G. Heat is removed Sketch:					

2. Indicate if each of the following increases or decreases ($\uparrow$ or $\downarrow$) during the changes for the reaction: $\text{H}_2(\text{g}) + \text{Cl}_2(\text{g}) + \text{heat} \rightleftharpoons 2\text{HCl}(\text{g})$

	Shift	Heat	H_2	Cl_2	HCl
E. HCl is removed from the container Sketch:					
F. Heat is added Sketch:					
G. Heat is removed Sketch:					

