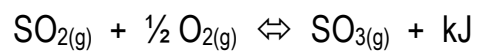


## Wkst 2.3: Le Châtelier

1-



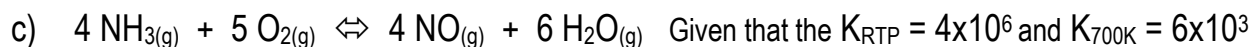
Equilibrium Stress	[SO <sub>2</sub> ]	[O <sub>2</sub> ]	[SO <sub>3</sub> ]	Effect on K <sub>eq</sub>
Add SO <sub>2</sub>				
Remove O <sub>2</sub>				
Raise Temp.				
Add SO <sub>3</sub>				
Increase volume				

2-



Equilibrium Stress	[PCl <sub>5</sub> ]	[PCl <sub>3</sub> ]	[Cl <sub>2</sub> ]	Effect on K <sub>eq</sub>
Remove PCl <sub>5</sub>				
Lower volume				
Add Cl <sub>2</sub>				
Lower Temp.				
Remove PCl <sub>3</sub>				
Increase pressure by adding helium				

3- Determine if the following reactions are exothermic or endothermic. Also state whether minimum enthalpy or maximum entropy is dominating at the conditions involved.



4- How would you utilise concentration, temperature and pressure to maximise the yield of chlorine in the following reactions?

