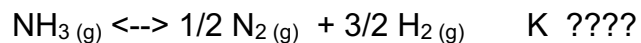
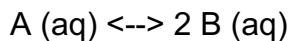


CHEM 1032 – Week 6 Questions

1. What is the value of K for the second reaction?



2. For the reaction and conditions below determine the value of K.



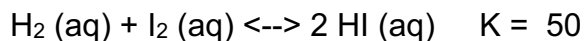
	[A]	[B]
Initial	1.00	0.00
Equilibrium	0.75	?

3. For the reaction and conditions below determine the equilibrium concentrations.



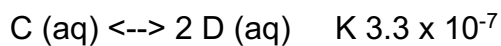
	[A]	[B]
Initial	0.98	0.00
Equilibrium	?	?

4. For the reaction and conditions below determine the value of the equilibrium concentrations.



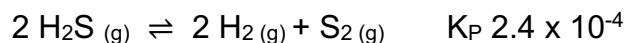
	[H ₂]	[I ₂]	[HI]
Initial	0.670	0.670	0
Equilibrium	???	???	???

5. For the reaction and conditions below determine the equilibrium concentrations.



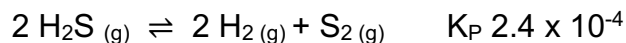
	[A]	[B]
Initial	0.98	0.00
Equilibrium	?	?

6. If a reaction mixture contains 0.041 atm H₂, 0.037 atm S₂, and 0.615 M H₂S, is the reaction at equilibrium?



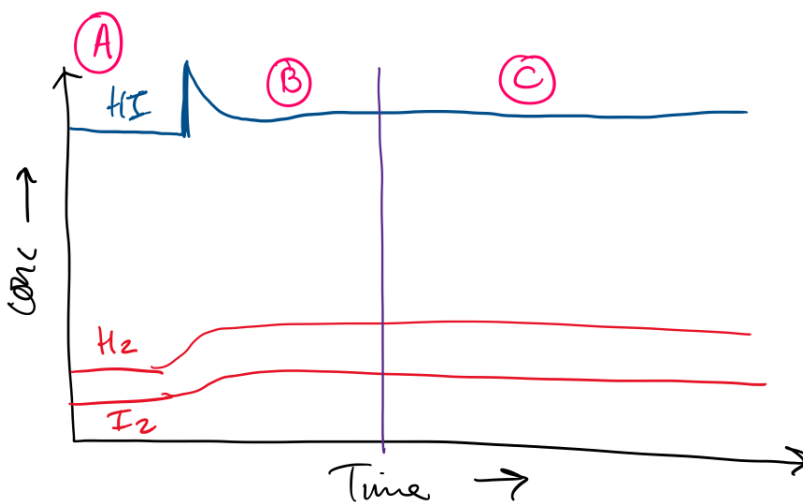
7. For the example we just completed....What is the value of ΔG ?

"If a reaction mixture contains 0.041 atm H₂, 0.037 atm S₂, and 0.615 atm H₂S, is the reaction at equilibrium?"

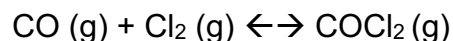


8. What is the definition of equilibrium?
- Rate forward = rate backward
 - Concentration reactants = concentration products

9. For the graph below...
- What happens when you add HI?
 - In region A, what is the relationship between Q and K?
 - In region B, what is the relationship between Q and K?



10. For the following reaction what happens to equilibrium as a result of the stress?



- Remove COCl₂?
- Double the size of the container?