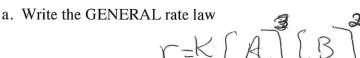
1. USE THE FOLLOWING DATA FOR THE REACTION: A + B ---->

	Conc. A(M)	Conc. B(M)	RateM/s
Exp. 1 Exp. 2	2 2	2. 4	
Exp. 3	10	4	2000 Calc. for B



r=K[A][B]

b. Solve for K--include units.

d. What is the overall reaction order $\frac{1.6 \times 10^{-4} / M_{/s}}{1.6 \times 10^{-4} / M_{/s}}$

2. For the reaction A + B <----> C you are given 2 moles of each product and reactant and enough water to make 5 liters of solution. If all substances in the equation are water soluble, which way will the reaction proceed initially in order to reach equilibrium? Kc for the reaction is .25 Defend your answer.

3. When the following system is at equilibrium, the concentrations of carbon dioxide and hydrogen are .640 M while

the concentration of water is .185 M.

 $O_2(g) + H_2(g) \leftarrow O(g) + H_2O(g)$

Key = [CO][Hi]

a. What is the concentration of the carbon monoxide if the Keq is .400?

 $((0) = .89 \text{ M})^4 = ((0) (.185)$