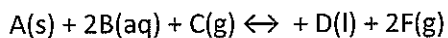


Equilibrium
Models of equilibrium



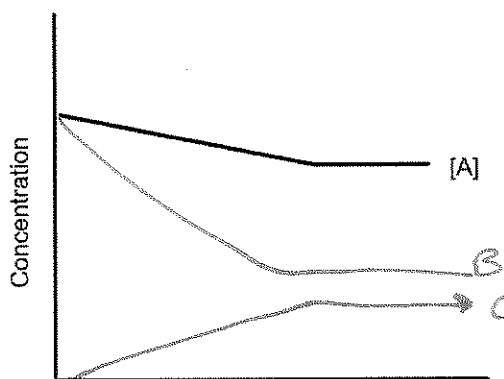
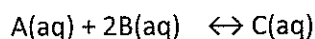
1. Write a K_c expression for this reaction above.

$$K_c = \frac{[F]^2}{[B]^2[C]}$$

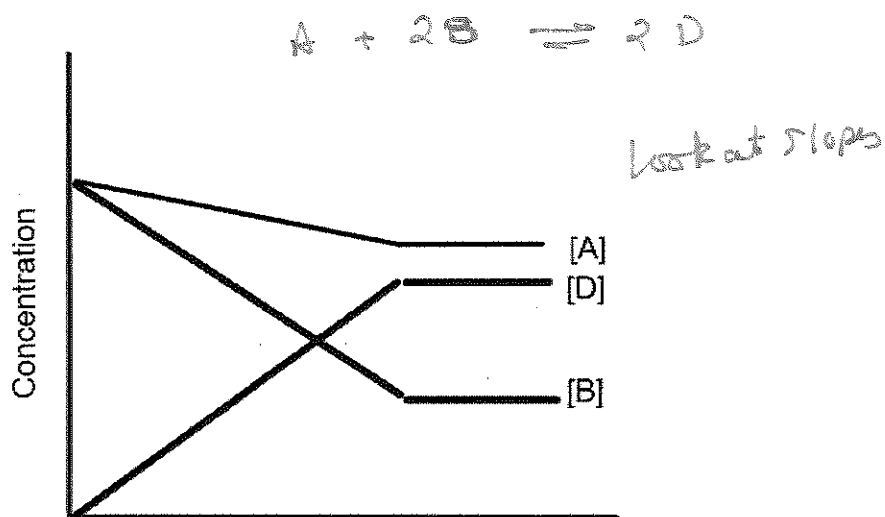
2. Write a K_p expression for the reaction above.

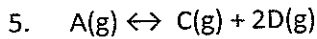
$$K_p = \frac{p(F)^2}{p(C)}$$

3. A and B start at the same concentration. Add the other lines representing the other substances.



4. Given the reaction between A and B producing D, what might be a possible chemical reaction given the data provided in the chart below?



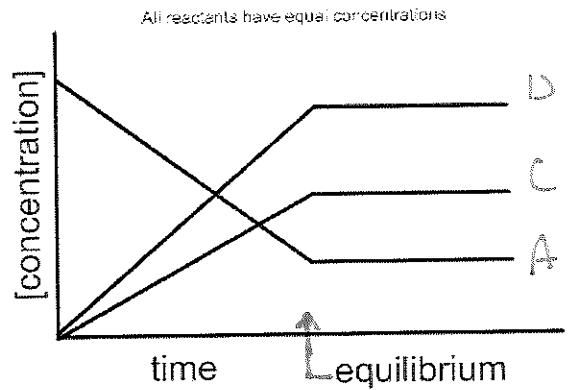


A sample of "A" is placed in a vessel and the reaction occurs until equilibrium.

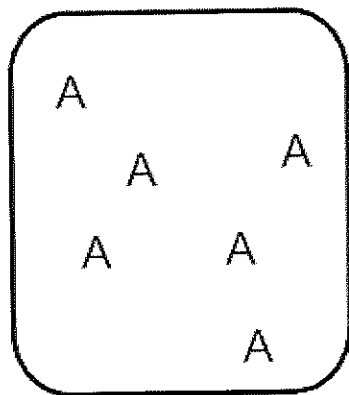
- Label line for each chemical it represents.
- Label when equilibrium is established.
- Write the K_c and K_p expressions for this reaction.

$$K_c = \frac{[D]^2 [C]}{[A]}$$

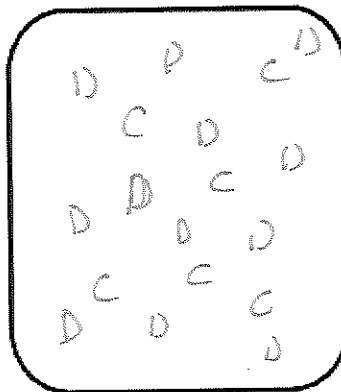
$$K_p = \frac{P(D)^2 P(C)}{P(A)}$$



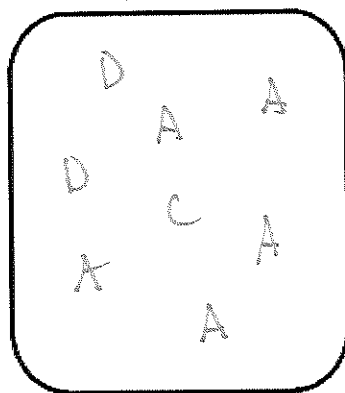
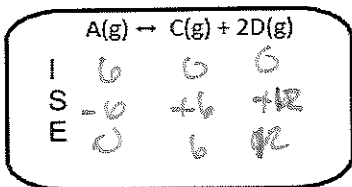
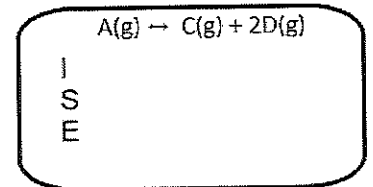
- Complete the following particulate drawings.



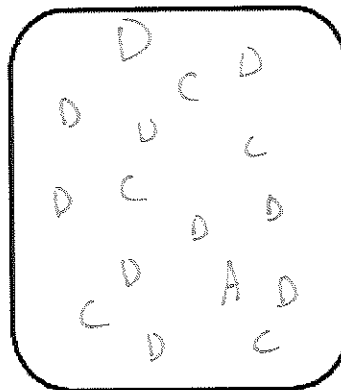
Initial



completion



reactant favored



product favored

