## Calculating Equilibrium Concentrations

Given the Equilibrium Constant AND the initial conditions, equilibrium concentrations can be calculated.

Example:

The equilibrium constant for the reaction

$$PCl_{5 (g)} \leftrightarrow PCl_{3 (g)} + Cl_{2 (g)}$$

is 0.021 at a certain temperature. If the initial concentration of PCl<sub>5(g)</sub> is 0.100 mol L<sup>-1</sup>, what are the equilibrium concentrations of all species?

Assume a volume of 1 L.

Initially it contains 0.100 moles PCl<sub>5(g)</sub>.

At equilibrium, x moles of  $PCl_{5(g)}$  have reacted and therefore 0.1-x moles are left. From the equation x moles of  $PCl_{3(g)}$  and of  $Cl_{2(g)}$  have been formed.

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**S Ben Porath** 

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