# The Reaction Quotient

- We can write K only for a reaction at equilibrium

$$Q = \frac{[NH_3]_0^2}{[N_2]_0[H_2]_0^3}$$
 Describes the reaction when not at equilibrium

- 3. Q = reaction quotient has the same form as K, but is at non-equilibrium times.
- 4. Q can tell us how a reaction will change to get to equilibrium
  - 1) If Q = K, we are at equilibrium
  - If Q > K, then products > reactants and the reaction will shift left
  - 3) If Q < K, then reactants > products and the reaction will shift right

Q	K	Predicted Direction of Reaction
0.55	1.45	To the right (towards products)
2.55	1.45	To the left (towards reactants)
1.45	1.45	No change (at equilibrium)

- 5. Example: For the above reaction,  $K = 6 \times 10^{-2}$ . Predict change:
  - 1)  $[N_2]_0 = 1 \times 10^{-5} M$ ,  $[H_2]_0 = 0.002 M$ ,  $[NH_3]_0 = 0.001 M$
  - 2)  $[N_2]_0 = 1.5 \times 10^{-5} M$ ,  $[H_2]_0 = 0.354 M$ ,  $[NH_3]_0 = 0.0002 M$
  - 3)  $[N_2]_0 = 5$  M,  $[H_2]_0 = 0.01$  M,  $[NH_3]_0 = 0.0001$  M

# **Entropy Pogil Answer Key**

**Xiang Xie** 

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