

Solutions

Each answer shows the steps, then the **result**.

2.1

- Products

2.2

- Reactants

2.3

- No

3.1 B

- mostly products

3.2

(a)

- Reaction 1 (larger K)

(b)

- Reaction 2 has a small K , so at equilibrium it is mostly reactants with little product

3.3

- K describes the extent (position) of equilibrium, which is thermodynamic; the speed of reaching it depends on kinetics (activation energy), a separate factor