Quiz (Introduction to Chemical Equilibrium)
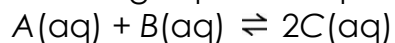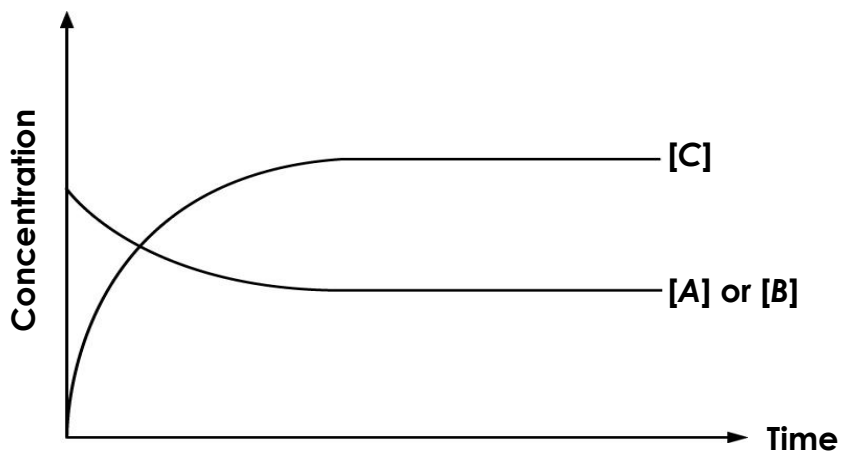
The following equation represents a reaction in dynamic equilibrium.
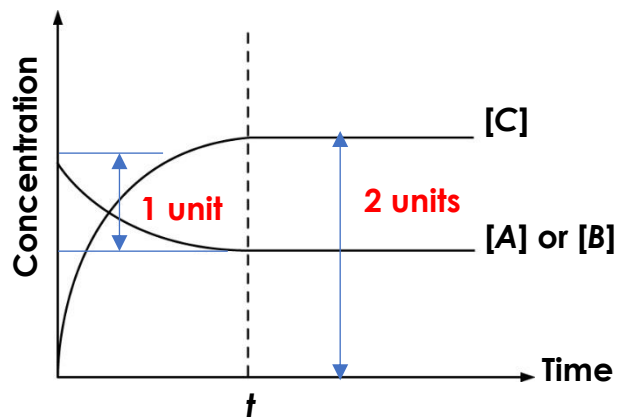$$A(aq) + B(aq) \rightleftharpoons 2C(aq)$$

The diagram below shows the change in concentrations of reactants and product with time.

(a) On the diagram above, mark with a dotted line the time, t, at which the equilibrium is just reached. Explain your answer.

(b) Sketch the rates of forward and backward reactions with respect to time.

Suggested Answer

(a)

The two curves become horizontal and the concentrations of reactants and product remain unchanged at time *t*.

(b)