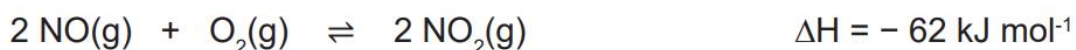
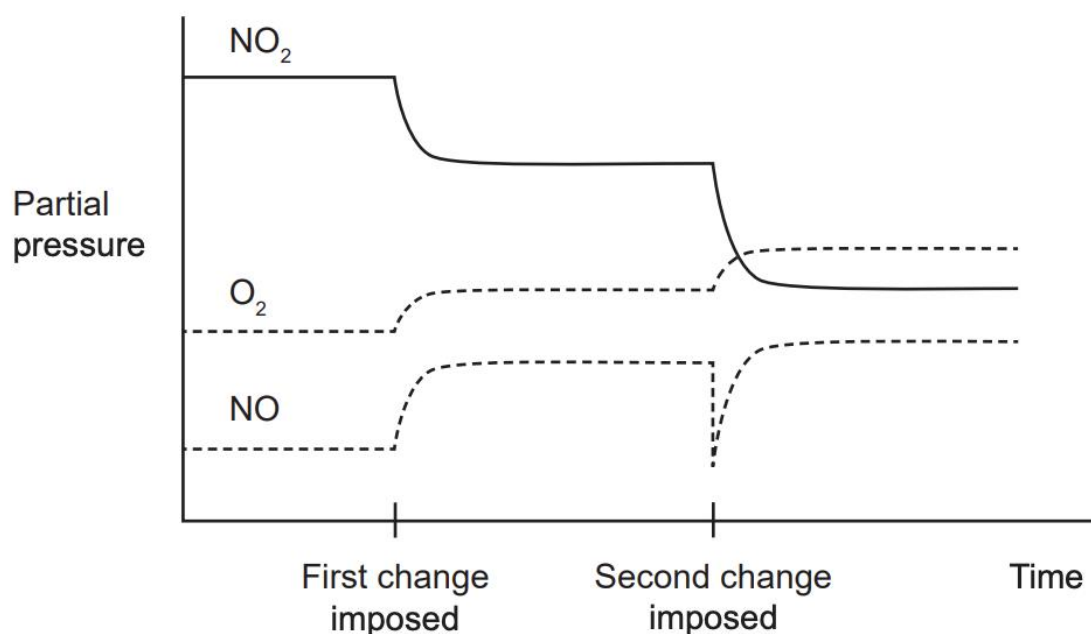


Nitrogen dioxide, $\text{NO}_2(\text{g})$, is formed when nitrogen monoxide, $\text{NO}(\text{g})$, undergoes oxidation as shown below.



A change was imposed on an equilibrium gas mixture of NO_2 , NO and O_2 . The mixture returned to equilibrium and another change was imposed. The following graph shows the effects of the two changes.



3. Identify the imposed changes that **best** account for the shape of the graph.

	First change	Second change
(a)	the temperature is decreased	the partial pressure of O_2 is increased
(b)	the temperature is decreased	the partial pressure of NO is decreased
(c)	the temperature is increased	the partial pressure of O_2 is increased
(d)	the temperature is increased	the partial pressure of NO is decreased