

13.12 Which of the following diagrams (Fig. 13.5) depicts ideal gas behaviour?

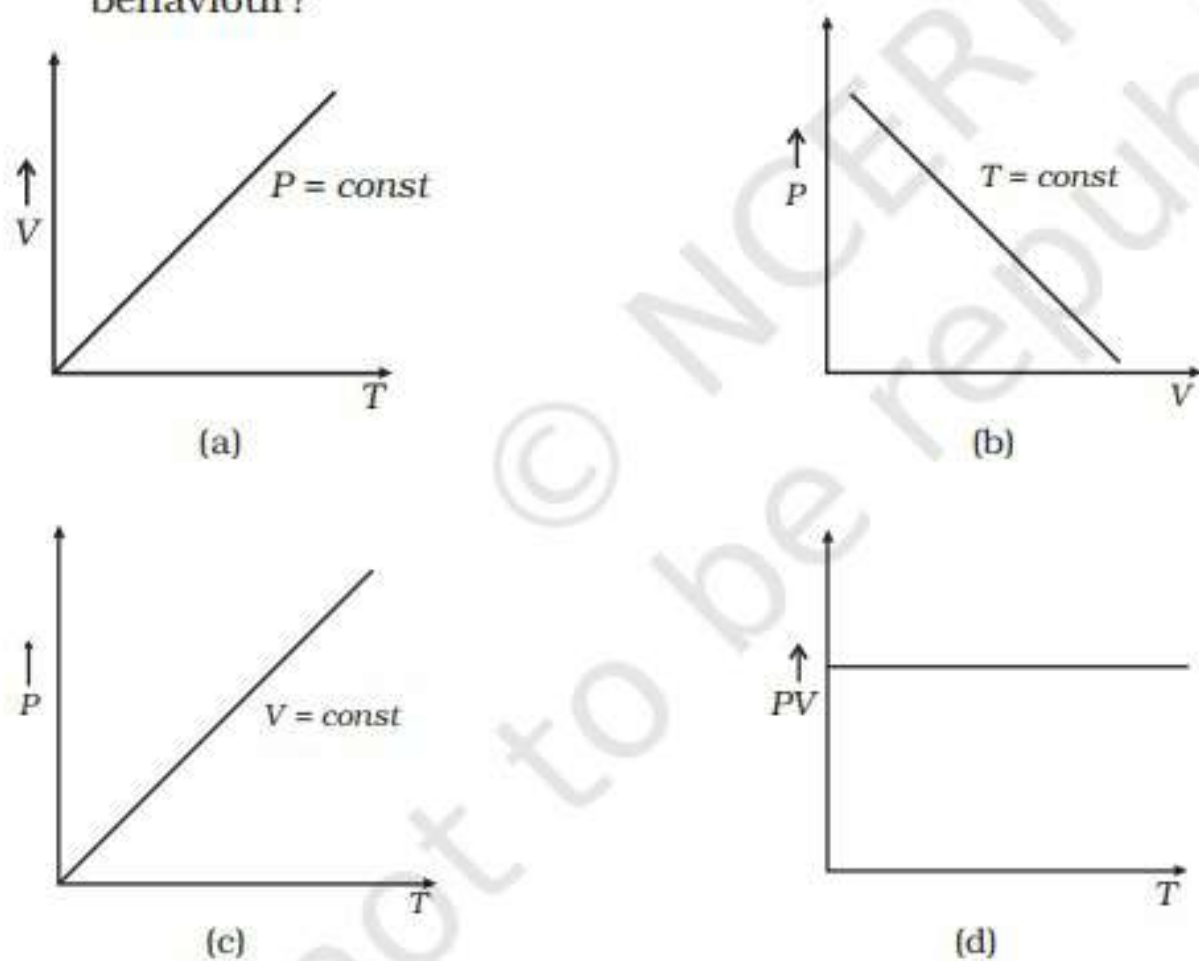


Fig. 13.5

Ideal gas equation is: $PV = nRT$

(a) At constant P ; $V \propto T$ (\checkmark)

(b) At constant T ; $P \propto \frac{1}{V}$ (i.e. hyperbola) \rightarrow (\times)

(c) At constant V ; $P \propto T$ (\checkmark)

(d) $PV \propto T$ (\times)

Thus, options (a) and ~~(d)~~^(c) are correct