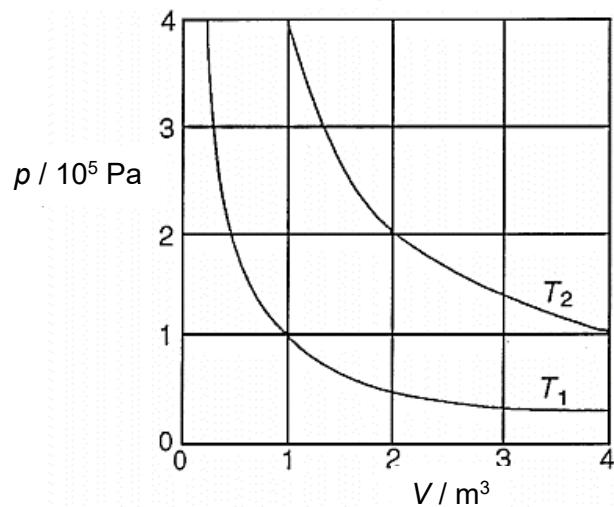


- 11 The two curves shown below connect points that have the same temperature for a fixed mass of an ideal gas.



What is the ratio

$$\frac{\text{r.m.s. speed of the molecules at temperature } T_2}{\text{r.m.s. speed of the molecules at temperature } T_1} ?$$

- A 1
- B $\sqrt{2}$
- C 2
- D 4

