

16 The root-mean-square speed of the molecules of an ideal gas is c . If the gas is heated at constant volume so that its pressure is increased from p to $4p$, what is the new the root-mean-square speed?

A $\frac{c}{16}$

B $2c$

C $4c$

D $16c$

17 A horizontal tube is closed at one end and contains a column of air of length 0.40 m . The