In an experiment involving an ideal gas the pressure ( p ) of the gas is plotted against the reciprocal of the volume ( $1 / \mathrm{v}$ ) of the gas at constant temperatures. The graph is...

## Solution.

$$
\begin{gathered}
T=\text { const } . \\
\quad P \sim \frac{1}{V} . \\
P=\frac{\text { const }}{V} .
\end{gathered}
$$

The graph is hyperbola.


