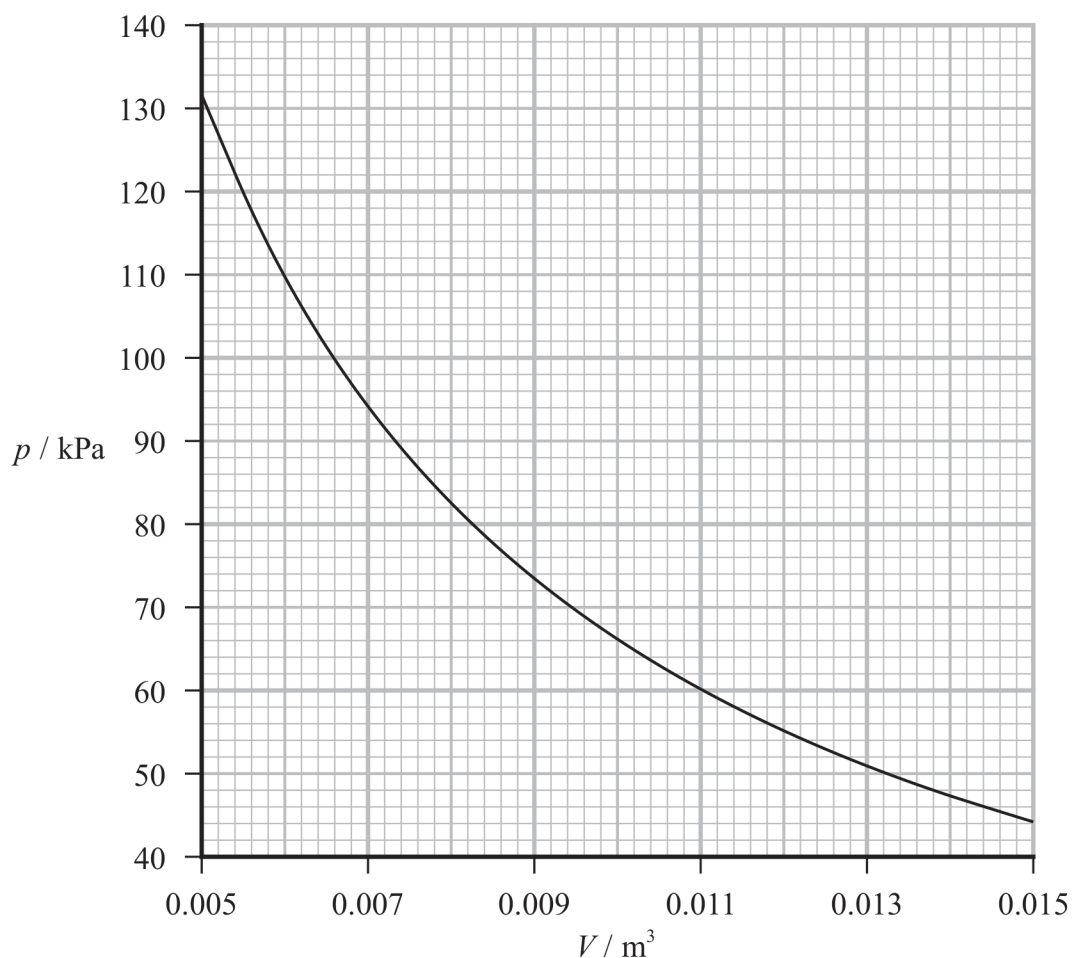


- 12 A student investigated the relationship between the pressure and volume of a fixed mass of gas at constant temperature.

He used his data to plot the following graph.



The student stated that his graph demonstrated that the pressure exerted by the gas was inversely proportional to the volume occupied by the gas.

Assess the validity of the student's statement.