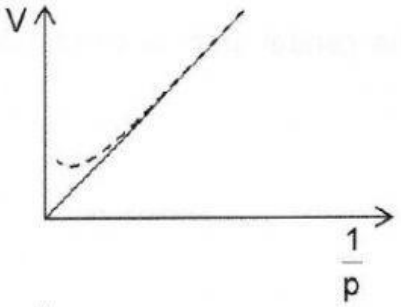
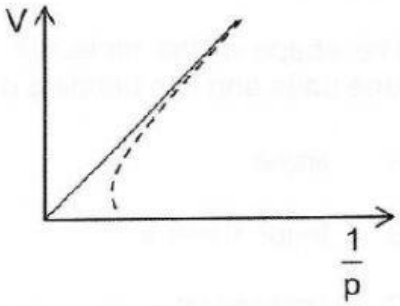
5. Which ONE of the graphs below CORRECTLY represents the deviation of a real gas from ideal gas behaviour at very high pressures? The dotted line represents the graph of the real gas.

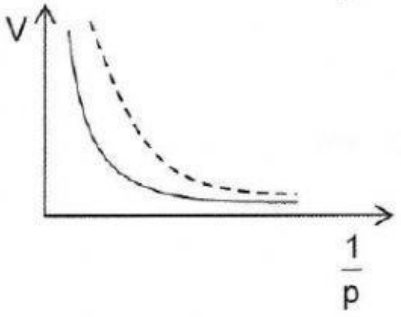
A



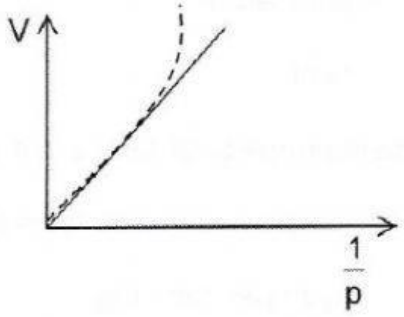
B



C



D



6. One mole of any gas occupies the same volume at the same temperature and pressure.

This statement is known as …

A Charles's law.

B Gay Lussac's law.

C Avogadro's law.

D the ideal gas LAW.

7. One mole of a gas, SEALED in a container, has volume **V** at temperature **T** and pressure **p**. If the pressure is increased to **3p**, the ratio between the volume and temperature (V : T) is …

A 1 : ⅓

B 3 : 1

C ⅓ : 3

D 1 : 3

8. In order to double the volume of a fixed amount of moles of an enclosed gas, the temperature in … at constant pressure.

A °C can be doubled

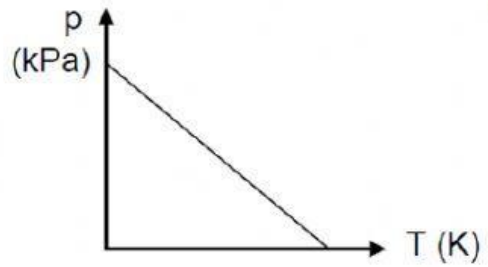
B K can be doubled

C °C can be halved

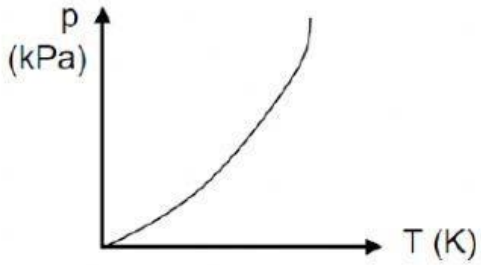
D K can be halved

9. The graph that CORRECTLY represents the relationship between the pressure (kPa) and the temperature (K) of an enclosed gas at constant volume is …

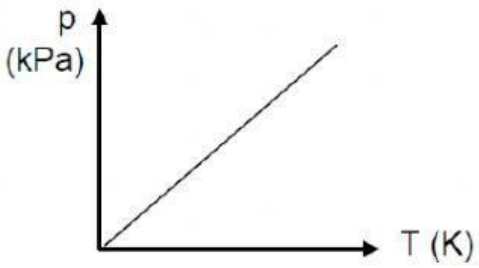
A



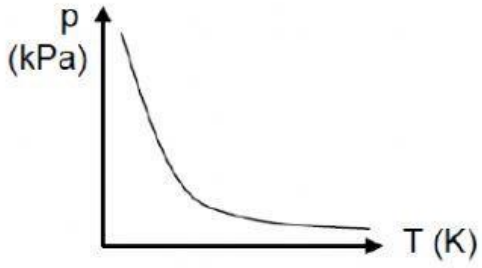
B



C



D



Homework question

Pg 325 Q6

Pg 330 Q4