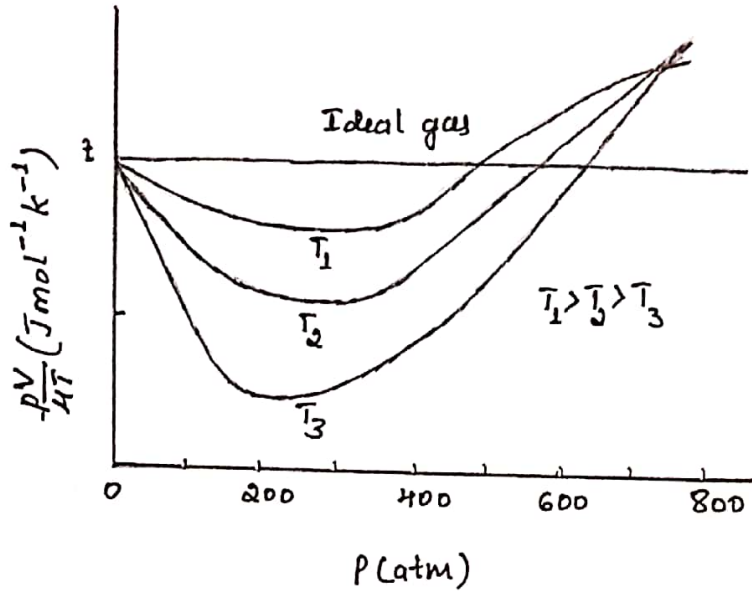
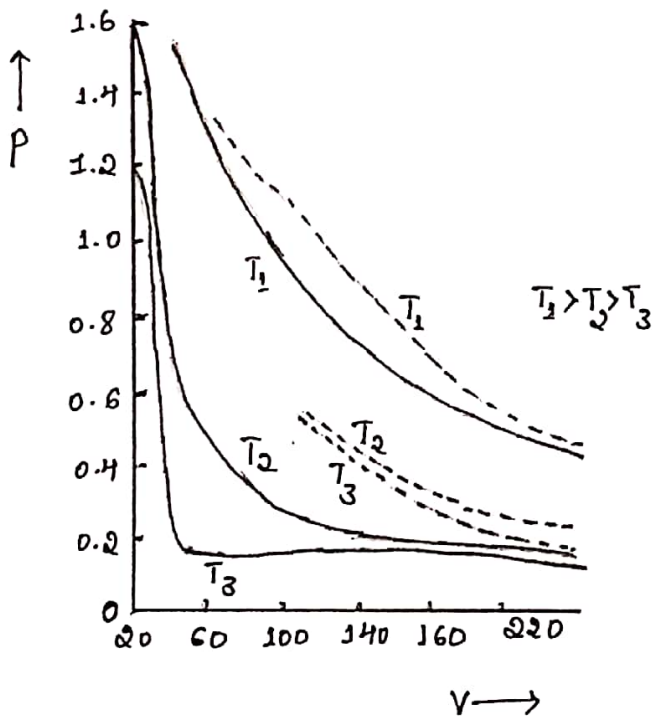


Chapter-13: Kinetic theory

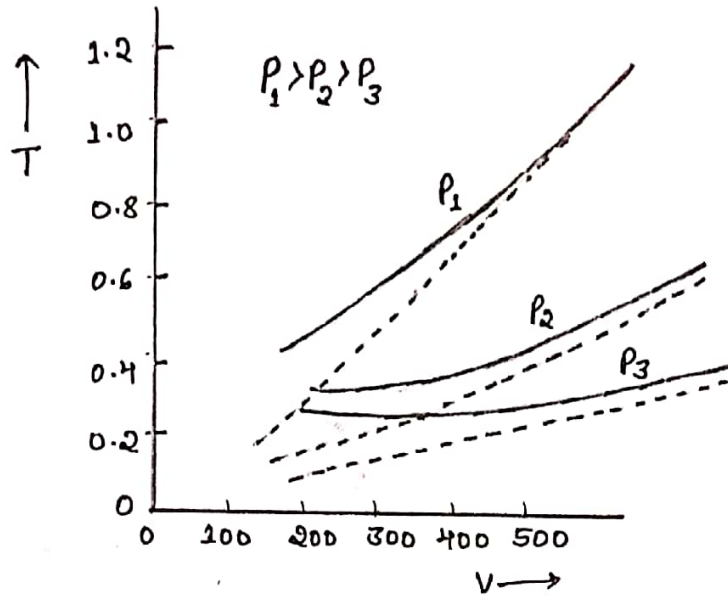
1) Real gases approach ideal gas behaviour at low pressures and high temperatures.



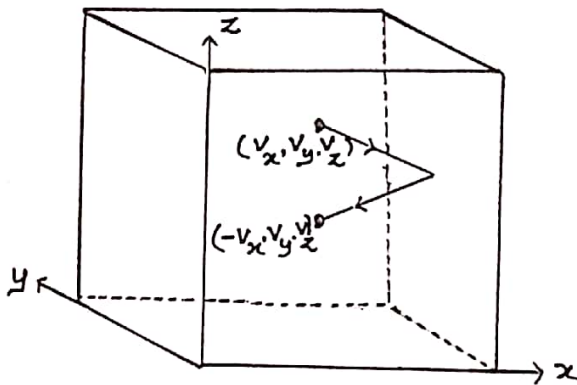
2) Experimental P-V curves for steam at three temperatures compared with Boyle's law. P is in units of 22 atm and V in units of 0.09 liters.



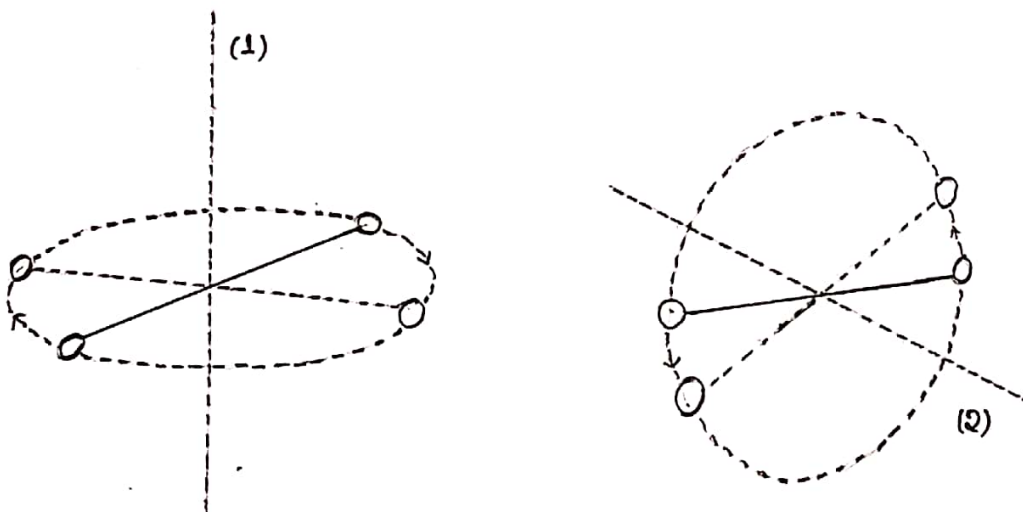
3) Experimental T-V curves for CO₂ at three pressures compared with Charles's law. T is in units of 300K and V in units of 0.13 litres.



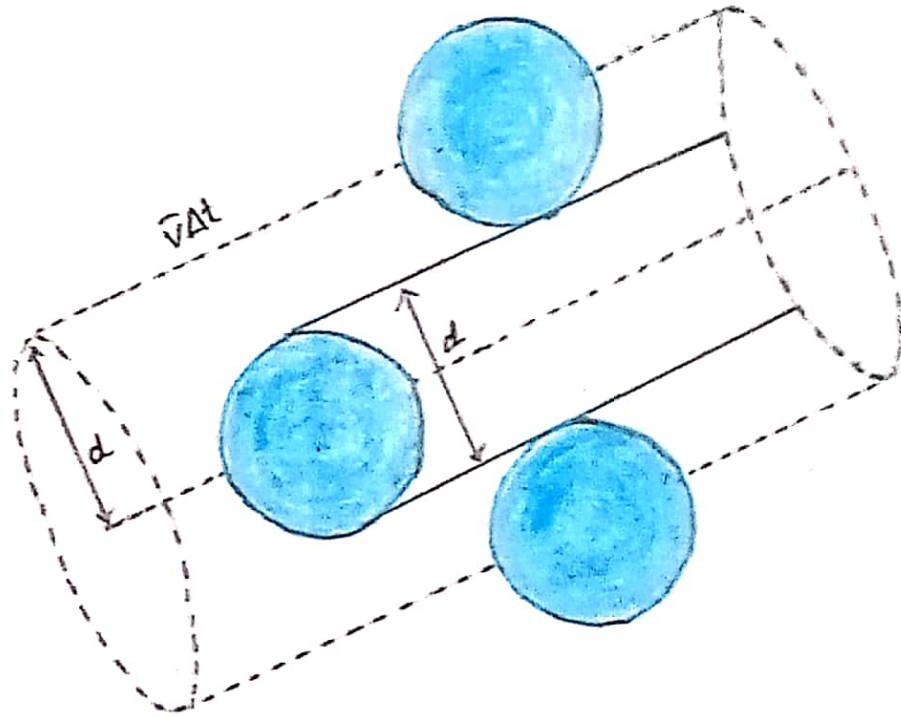
4) Elastic collision of a gas molecule with the wall of the container.



5) The two independent axes of rotation of a diatomic molecule.



6) Mean free path



The volume swept by a molecule in time Δt in which any molecule will collide with it.