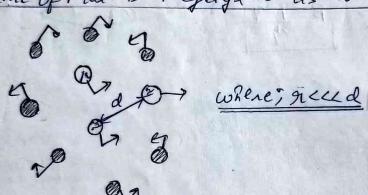
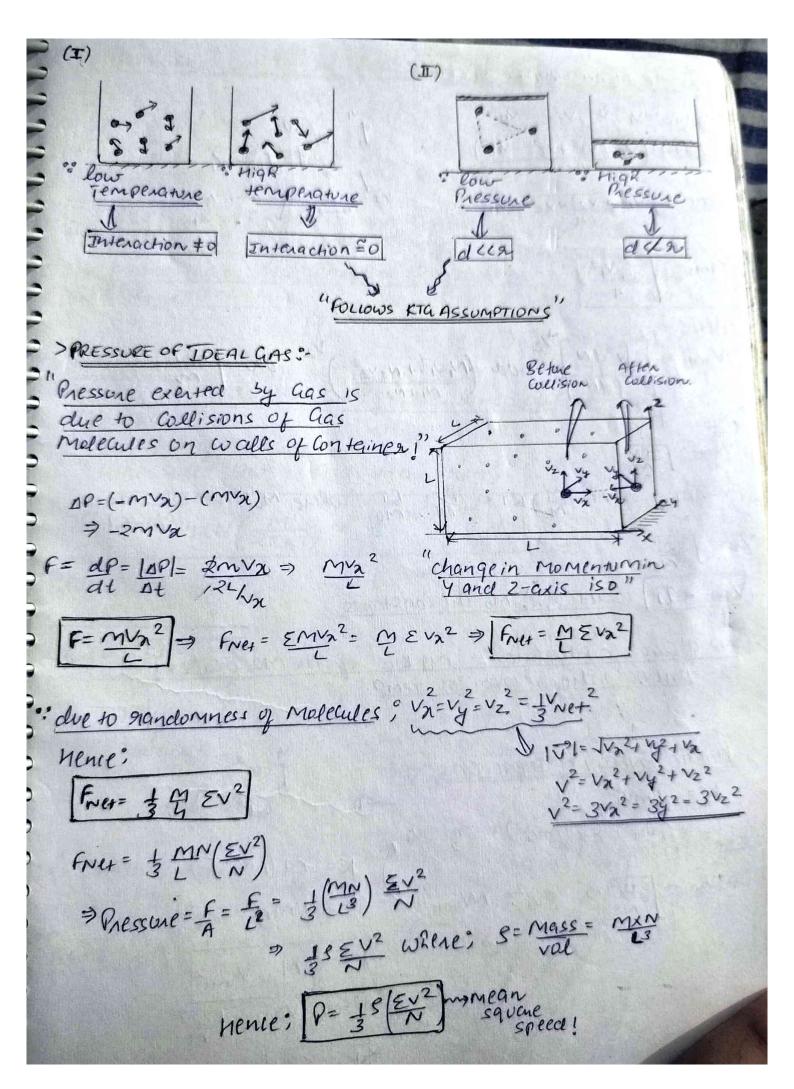
- ? KINETIC THEORY OF GASES ?-

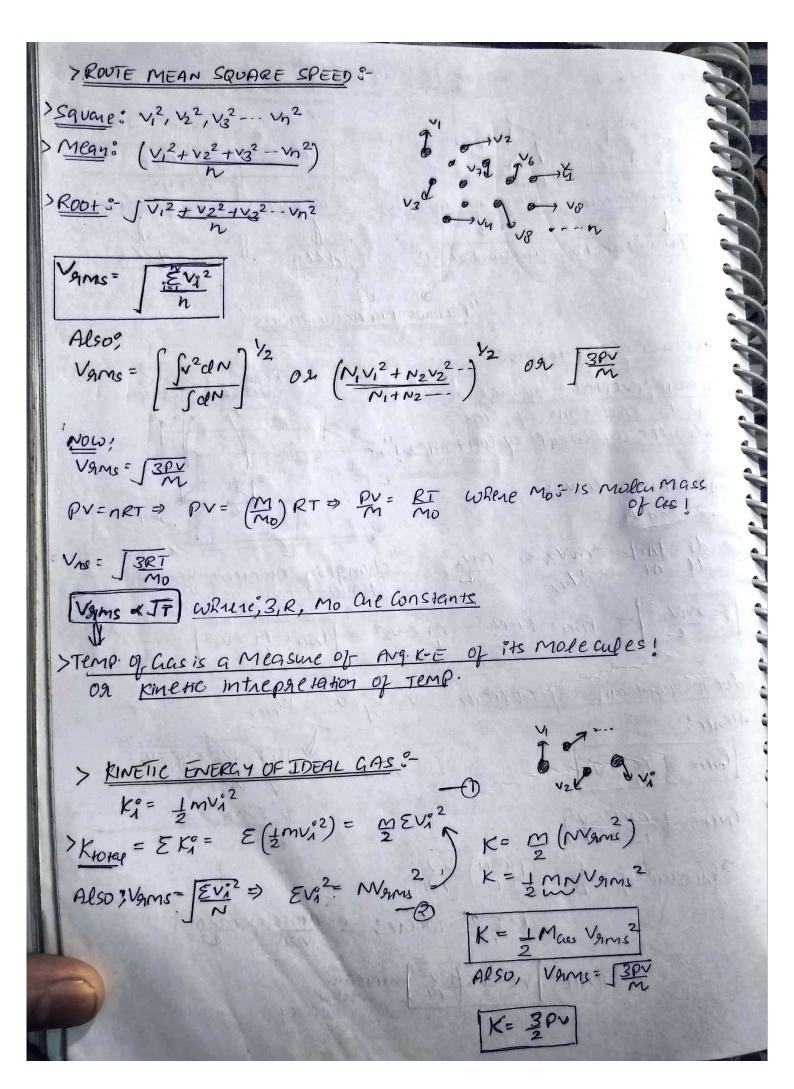
- as Gases are made up of tiny Particles Consisting of molecules
- > KTA: A Model of malecular Beravious which confirms
- > Assumptions OF KTG:-
- O There are very large of molecules
- (ii) Volume of mol· is negligible as compared with vol of cas



- (iii) All Mol- are identical, perfectly elastic & mand sphere
- (iv) Mole Cules Moves in all directions Handomey.

 11 sequally likely motion along 21, 4, 2 axis 200
- w mul. do not exert fonce on one another or walls of Container
- (vi) The Collision blu molecules on with wall are perfectly clastic.
- (vii) Mot obey Newton's law of Mo Hon.
- (viii) There is as solute uniformity in all properties of Cas through out Container.





JEANSLATIONAL KINETIC ATENERGY OF I MULS E = K = K = 3/2 ORT = 3 (RA)T one Mul. Muleulis E = 3KT) Where Kis Bultzmann Constant K= 1.388×10-23 TIK Mal. Can have speed less than vams or This Means that areater than Vams > MAXWELL EQ:-Maxwell derived on eq. Giving distribution of Mul. in diff speeds an -> No of molecules with speed blu v and v+dv then; : dN= 4TN (M) V2 e-MV2/2kT dv dNlds molecule speech. The speed at which drlavis Max. 15 Called Most Probable speed. Area under Curves Area = Sydn = S(dn) dv = SdN = N Area under Cure Gines No of Mulecules

