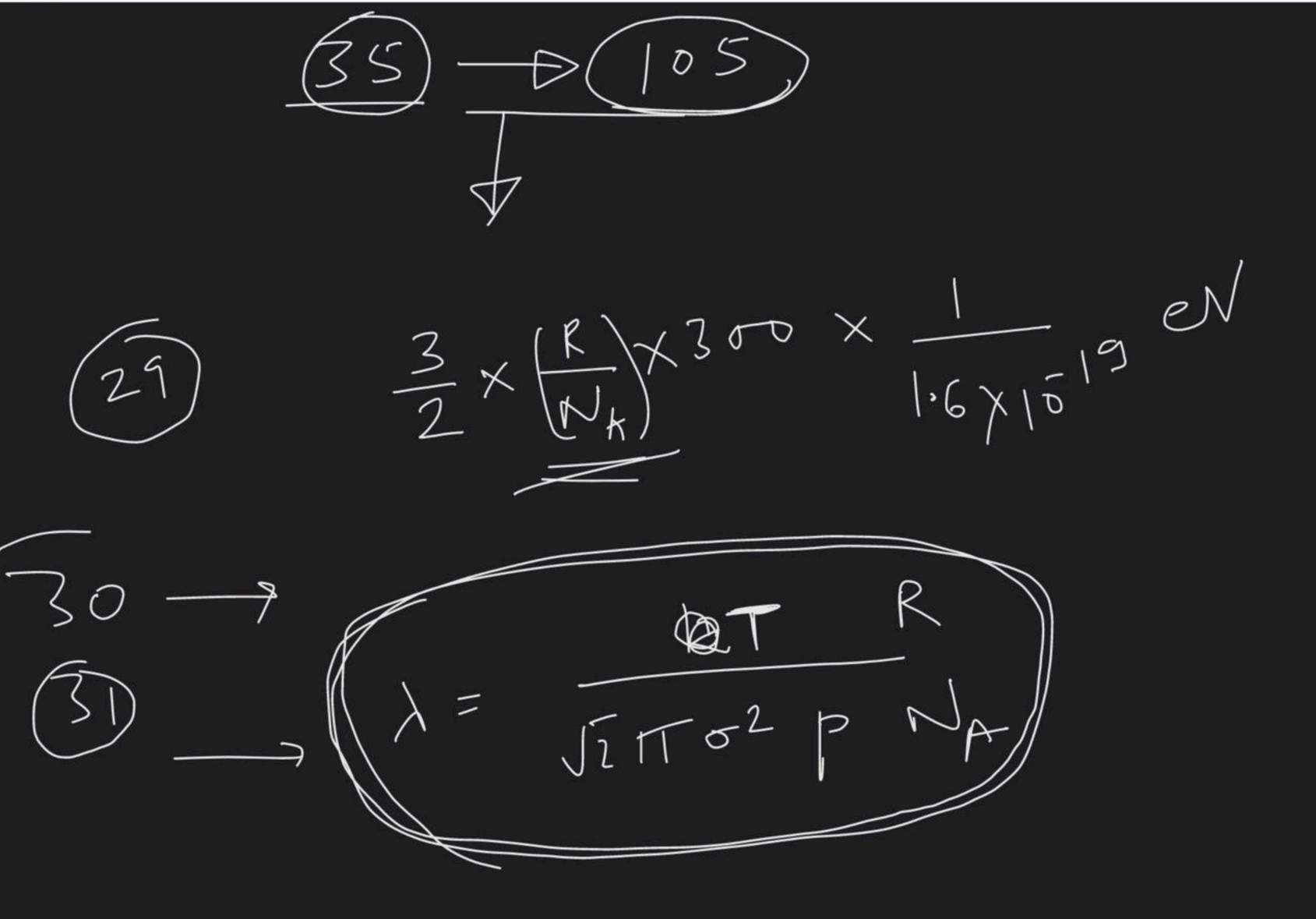
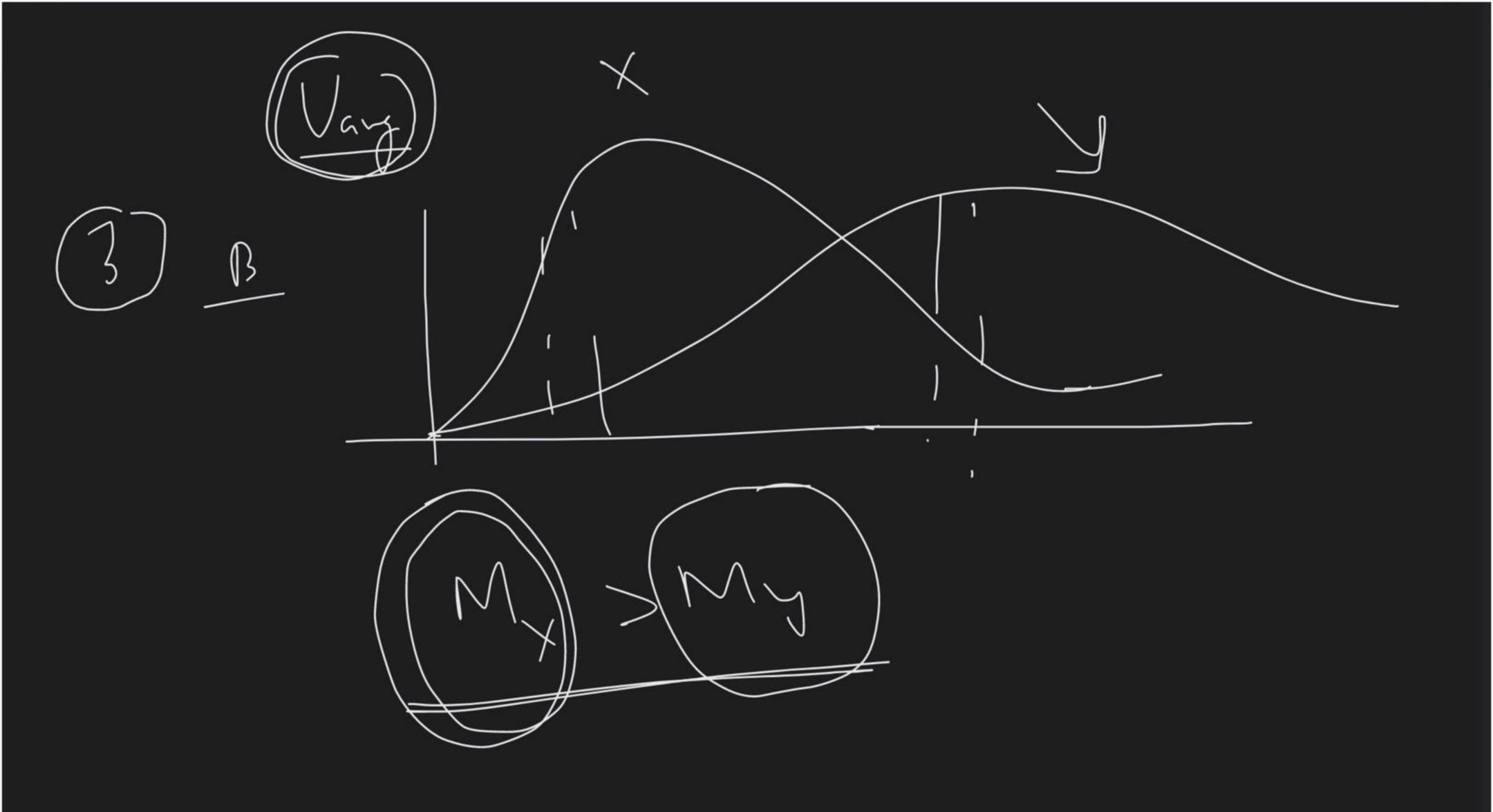
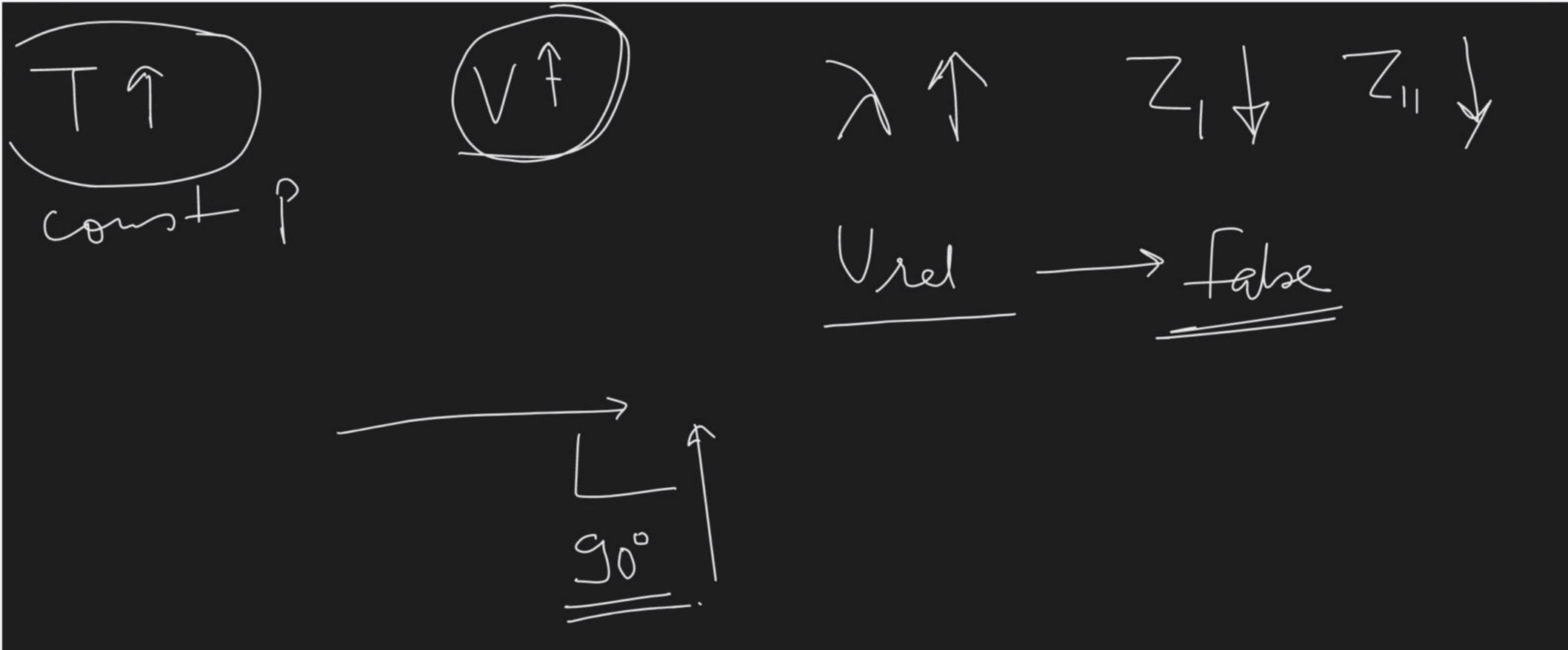


Course on States of Matter for Class XI



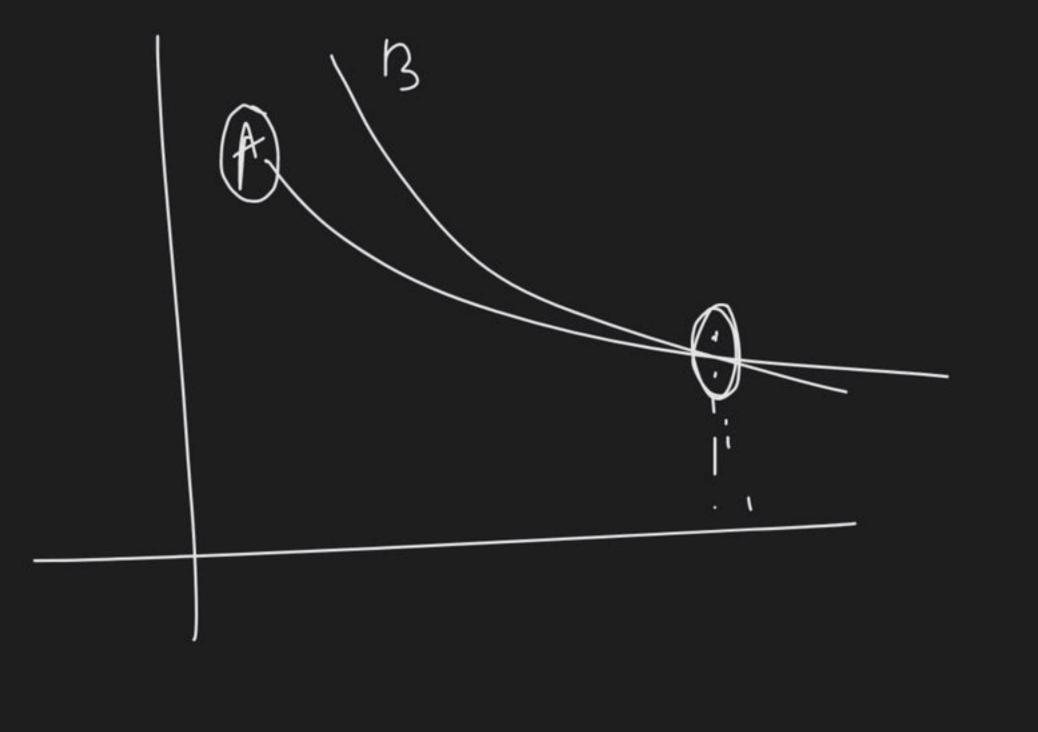
any particular range -> (Eabse (B) Mol. weight of Jas (2) (C)to sq root of True J = 3 N ?-

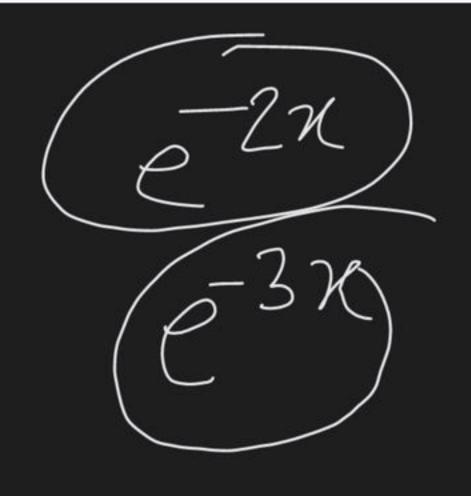




MASMB

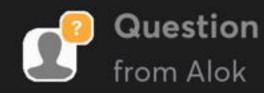
ABD



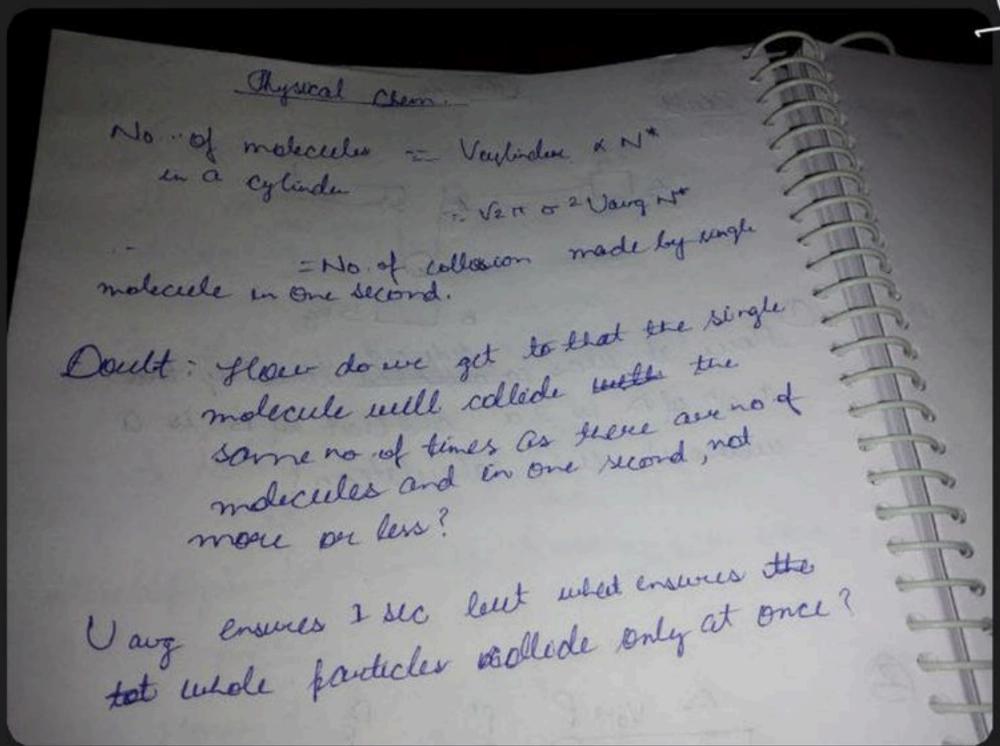


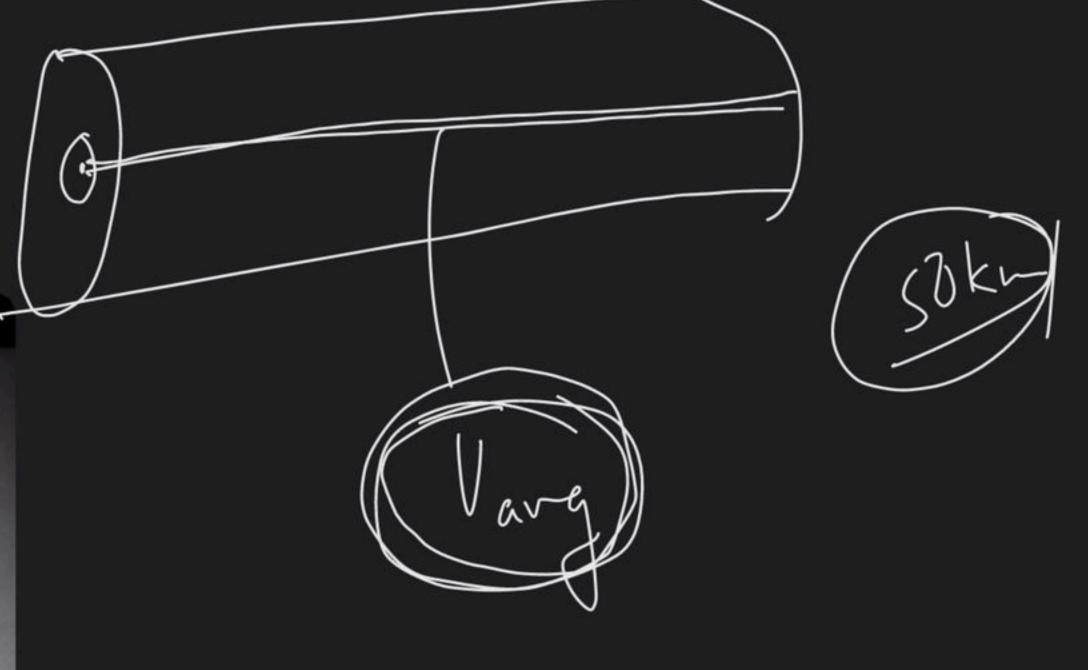
Nt = No e

Real Gases:

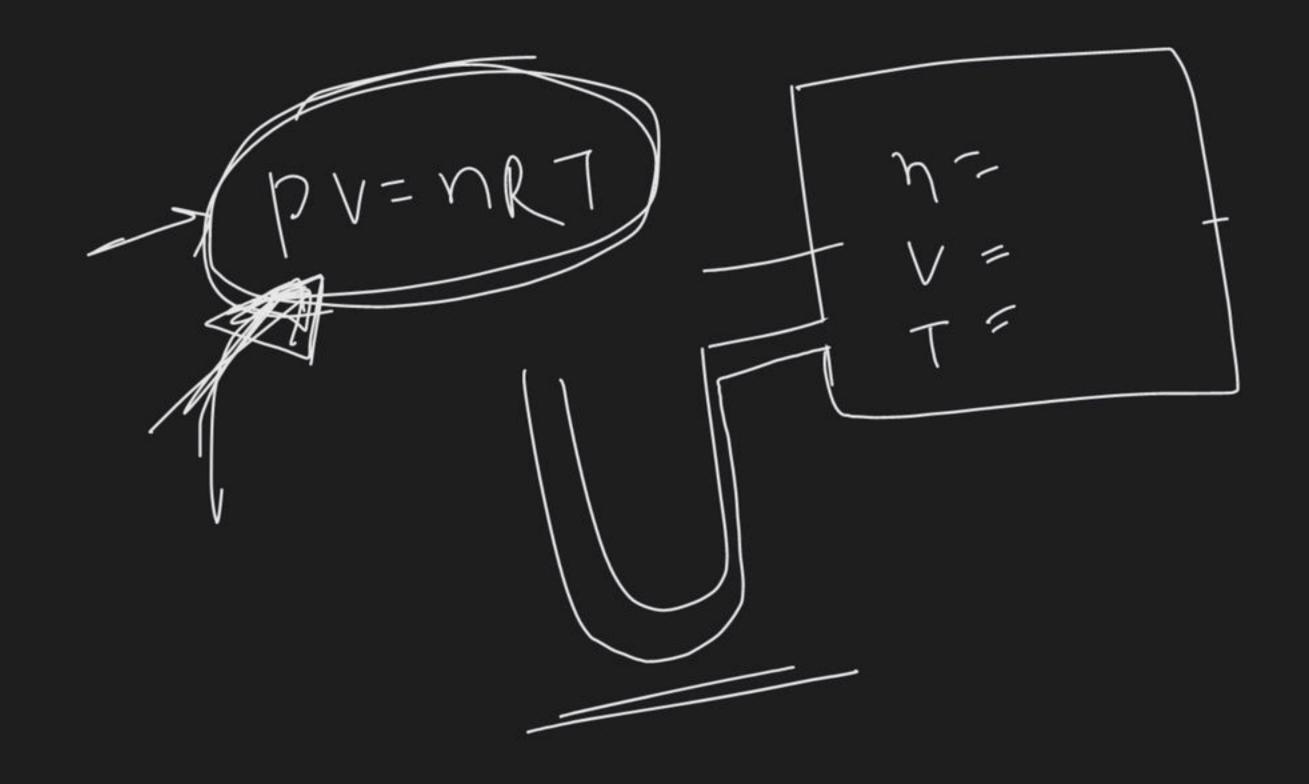


Sir please explain





Real Gones;



--- PV= NRT = ideal

Vander Waal's egn. Cause of deviation -> Vander wad points
out following two assumption 1 Internolealer force bet molealer Con not reglected. Volume Jascon $\left(2\right)$ is also molecules negligille not

camed by to compensate the error Vander Wack corrections infranced following two my pv= nRT =9. (1) Volume Correction 2) Pressure Correction

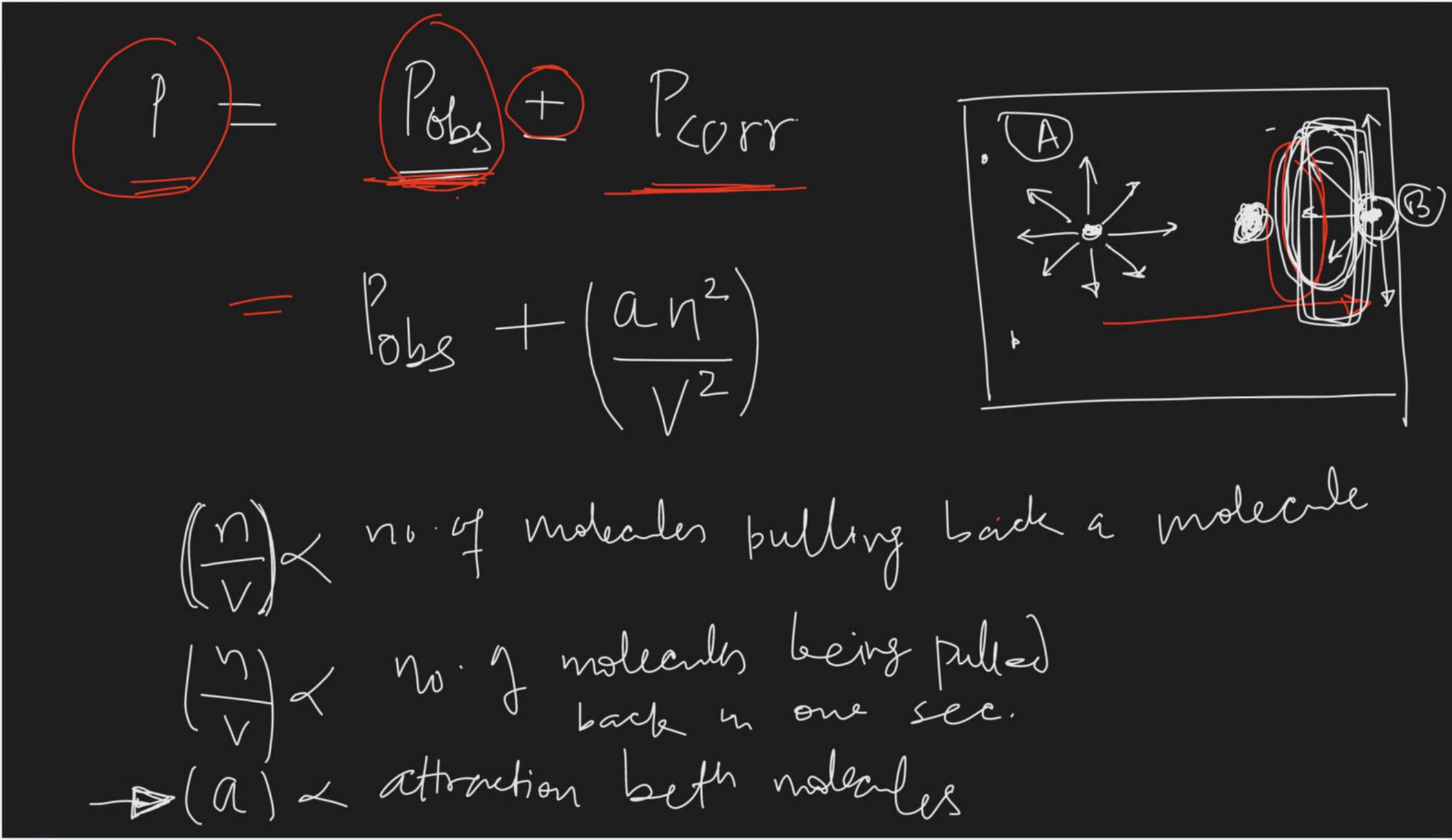
Volume correction: -> Vggs = Vcont = Voccupied by gas = Vobserved

P(V-nb) = MRT $PV = \gamma RT$ = Vol in which moderale can more = Vol. of gas molecules ree volume $-\sqrt{-\gamma_b}$

but impenetrable spheres. The volume occupied by the molecules also becomes significant because instead of moving in volume V, these are now restricted to volume (V-nb) where nb is approximately the total volume occupied by the molecules themselves. Here, b is a constant. Having taken into account the corrections for pressure and volume, we can rewrite equation (5.17) as

Vander Wads

Correction:--> ressure = 706s Pgas = Pexentend Jas Jas PV= mRT Premue exerted by the gas when there is no attraction bet mollandes



P'V'- NRT 1 / - 16 P + an2 $\left(\uparrow + \frac{\alpha n^2}{V^2}\right) \left(V - nb\right) = nRT$

alb Vanderwagtes Const

$$PV = NRT$$

$$P'V' = NRT$$

$$P'V' = NRT$$

$$P'V' = NRT$$

$$P + \frac{an^2}{v^2} (v - nb) = NRT$$

$$Real gras = 5 led Golf$$

