## Ideal Gas Equation

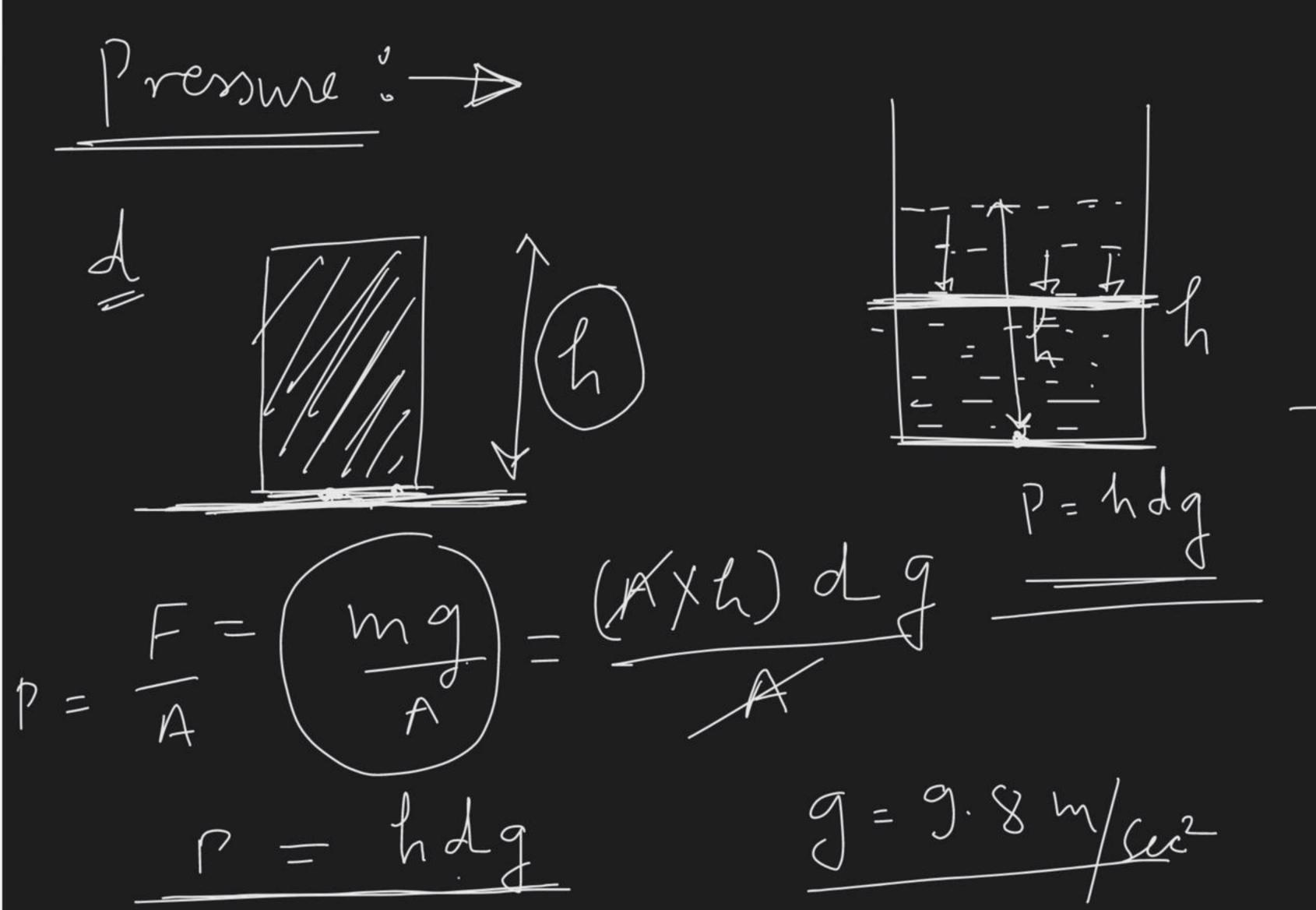
Course on States of Matter for Class XI

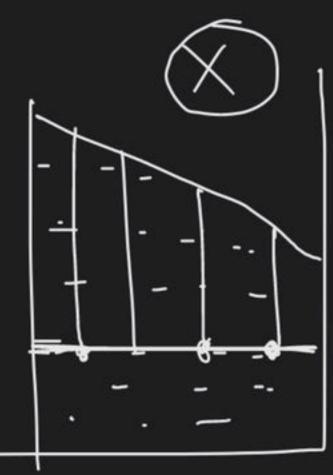
This chapter mainly deals with parameter=5/prop associated gases. Egeneral difference solid, Lig, gas

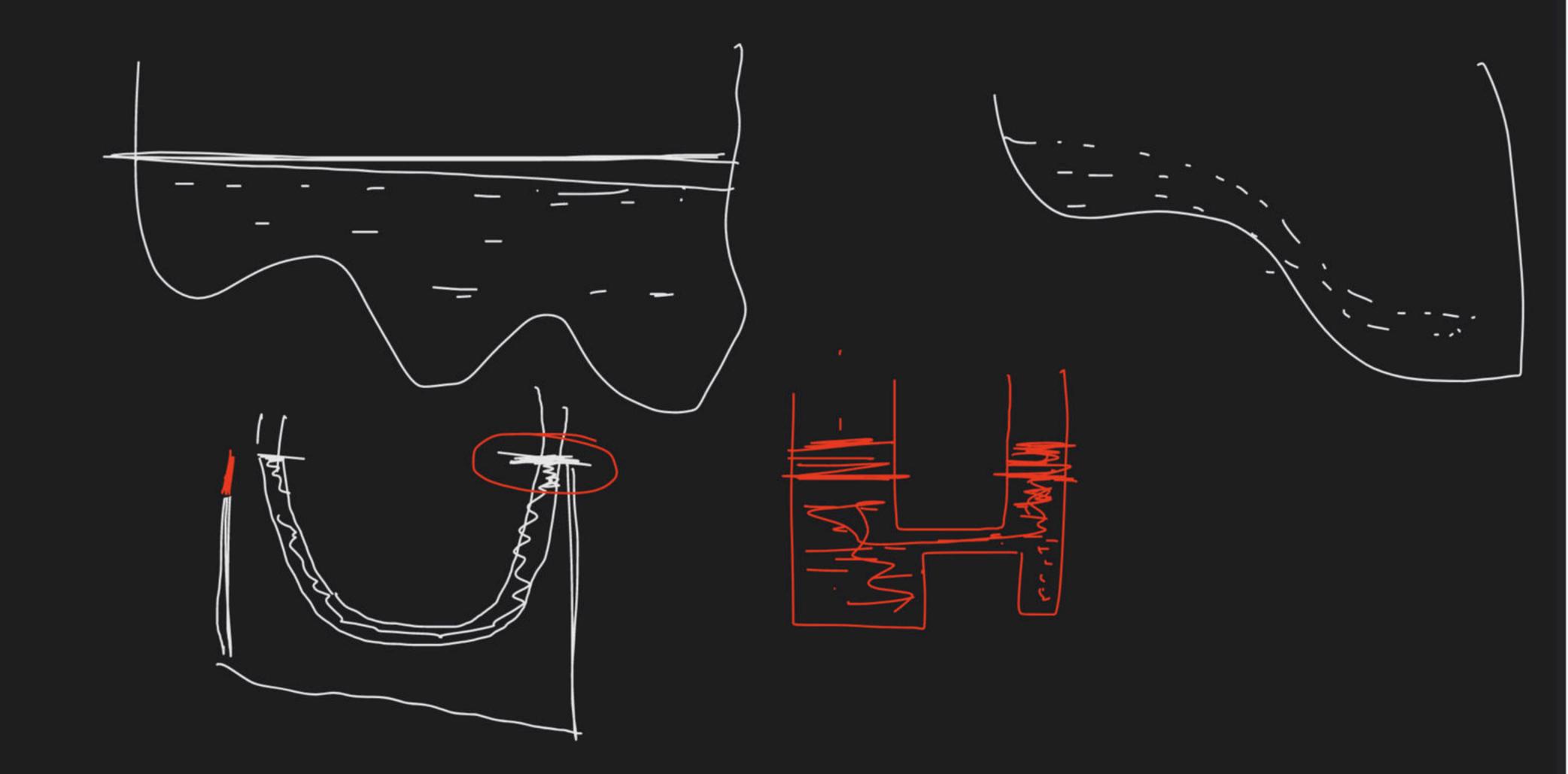
Gases liquid Sthid Properties Low - high Intermolecular very high framslational very high Low very low not fixed fixed tixed Volume not fixed. not fixed fix-ed Shape - (bw) high very high Density very high & Moderate Very low Diffusion

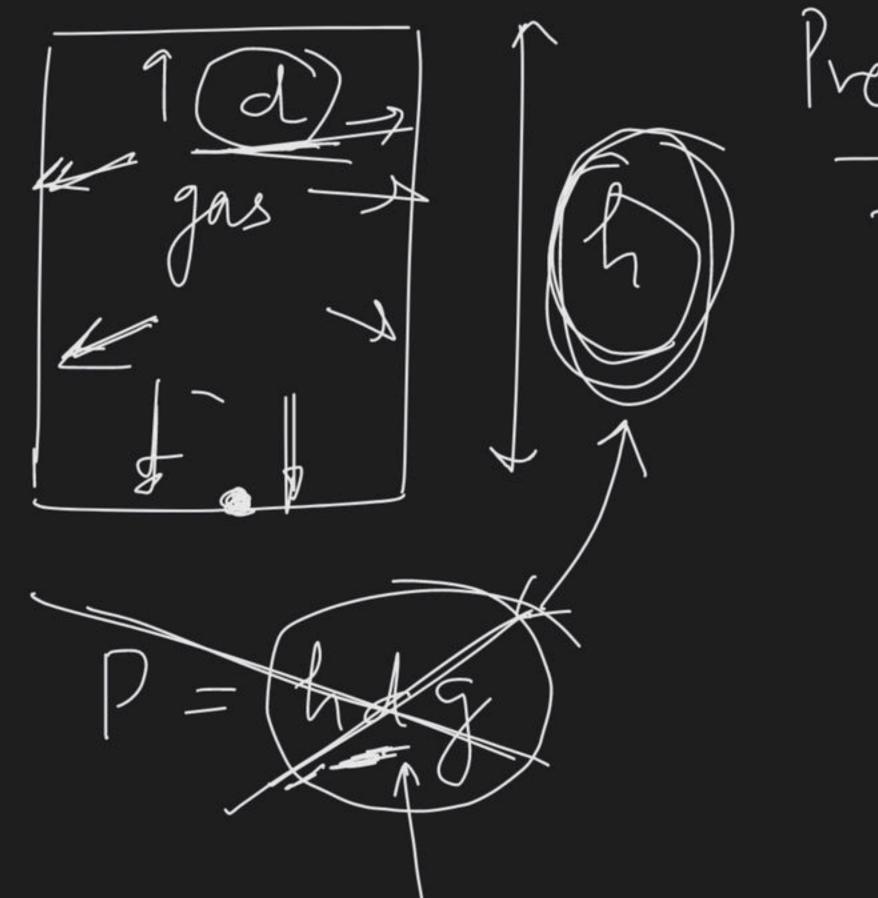
Parameters used to refine a Jas o- $1 dm = 0 \cdot /m$ (1) Mans/moles of glus 1 let = 1000 ml = UWCC 2) Volume j gas = Vol of container = 1000 cm3 = 1 dm - 10-3 m (3) lemperature: - D T(k) = T(c) + 273(5)

$$\frac{2}{5} \frac{t(c)}{(c)} + \frac{3}{3} \frac{2}{2} \frac{1}{2} \frac{1}{3} \frac{1}{$$







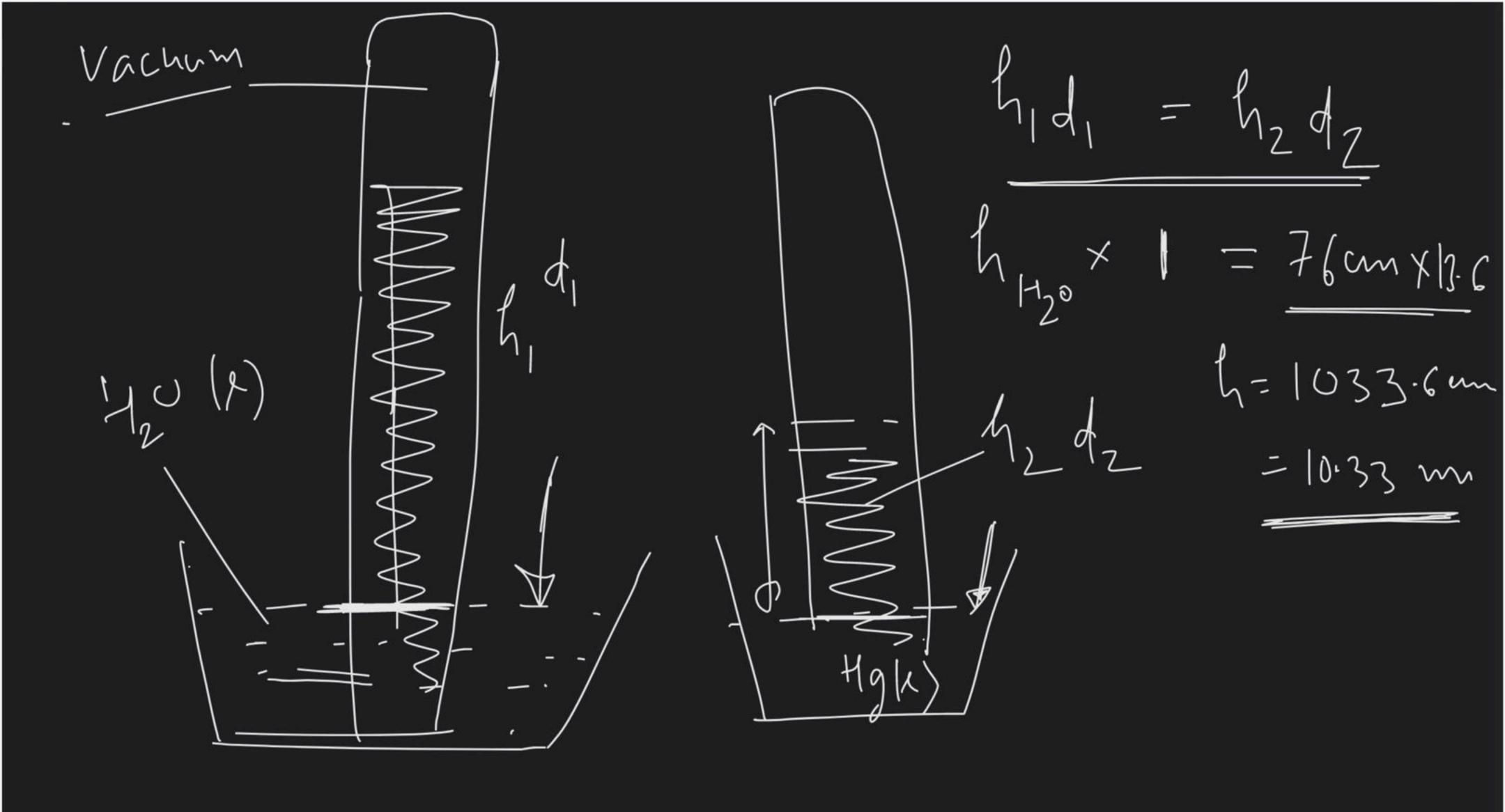


Pressure exerted by
The gases is due to
its collision with walls

Barometer: -> Used to measure atmosphinic Vacuum pressure. h dg = Patm d=13.69m/m h = 760 mm of Hg = 760 horr = 760 mm of HgFam = 0.76 m x 13600 kg/m3 x 9.81 m/Suc2

Par = 1.01325 X 105 Pa = 1 atm





#find the height of 120(1) Column which exist = latin (or 760 mm of Hg).  $h_1 d_1 = h_2 d_2$ = 76 × 13.6 hxd

1 atm = 766 mm of Hg = 76° /m = 1.01325×105 Pa - 1.01325 Lar - 10.33 m of 120(x)

15 m = 105 Pa

Manometer: -> It is wed measure

