Let's calculate the moster mass of a gaa.

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- can just rearrange lost ea!

$$d_{R} = \frac{d \cdot R \cdot T}{R} \Rightarrow dRT = V \cdot P$$

$$R \cdot T \Rightarrow dRT = V \cdot P$$

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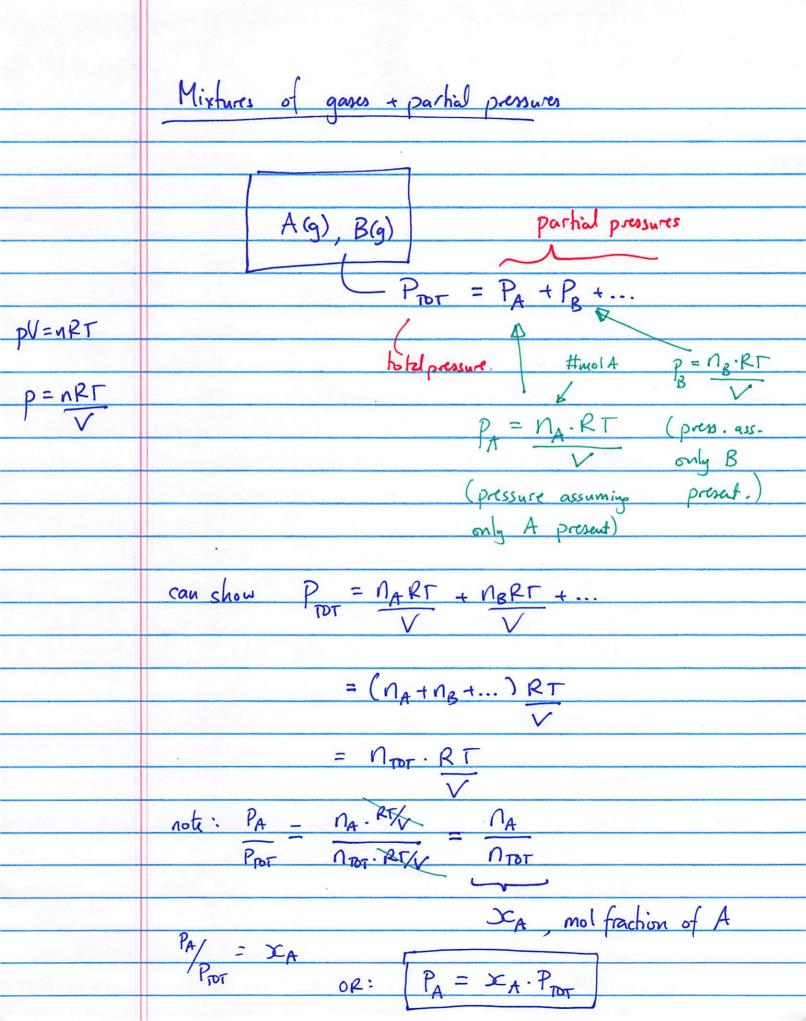
$$R \cdot T \Rightarrow dRT = V \cdot P$$

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$$R \cdot T \Rightarrow dRT = V \cdot P$$

$$R \cdot T \Rightarrow dRT \Rightarrow$$



if Prot = 760mmHg air: 78% N2 21% 02 PA = XA · PIDE 1% Ar PN = 0.78 × 760 mm Hg = 592.8 mm Hg partial Poz = 0.21 x 760 mmHg = 159.6 mmHg PA, = 0.01 x 760 mults = 7.60 mm Hg 760 mmHq Dalton's law of partial pressures: Pro = PA + PB + ... - Exercise in chapter: 5-9 - read over: gases collected over H20.

Grases in chem. rus ~ STOICHIOMETRY revisited!
- can use ided gas ea (pV=nRT) la radrulate:
J
Mass P Vas S for gaves used-up of
Mgas, Pgas, Vgas } for gases used-up of produced in a chem run!
ex: Synthesis of methanol: CH3OH
(O(q) + 2H2(g) -> CH3OH(g)
Q: What vol. of H2(g) in liters @ 355K
and a pressure of 738 multe is needed
and a pressure of 738 multes is needed to make 35.7g CH3OH?