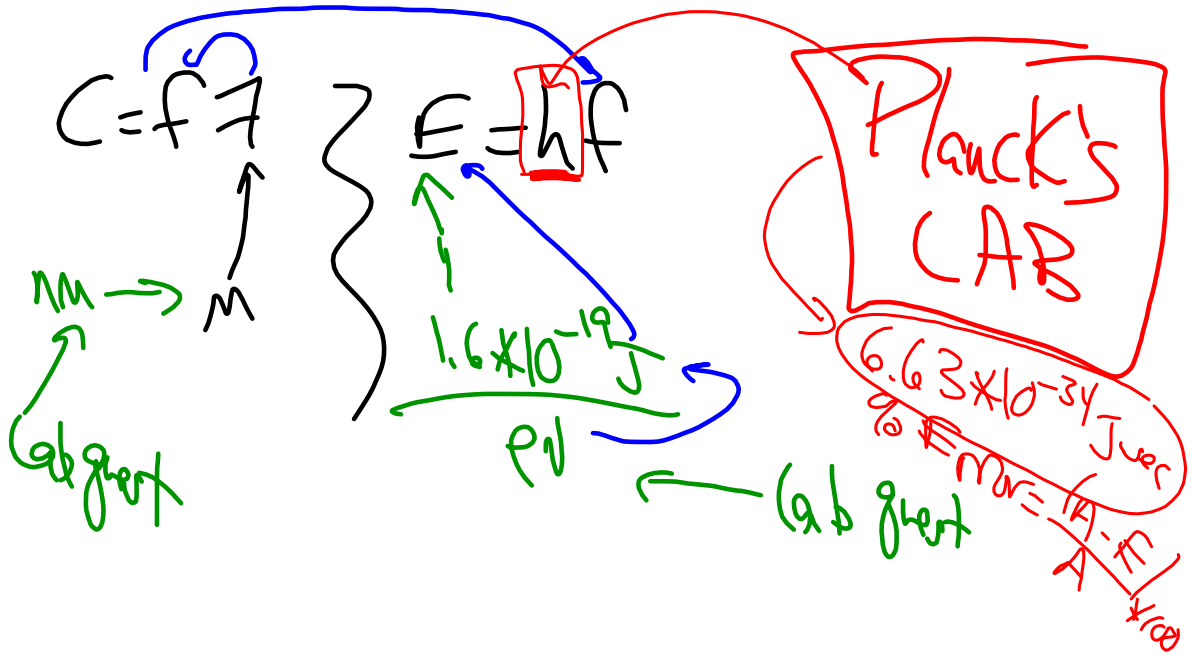


Use Table 2 as Template

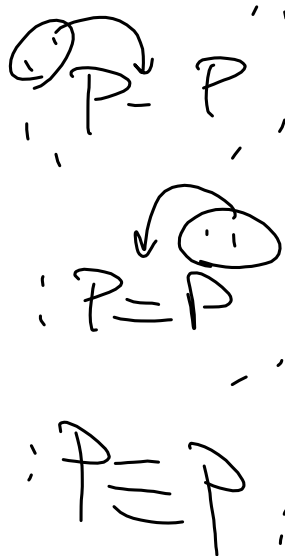


Dec 15-7:38 AM

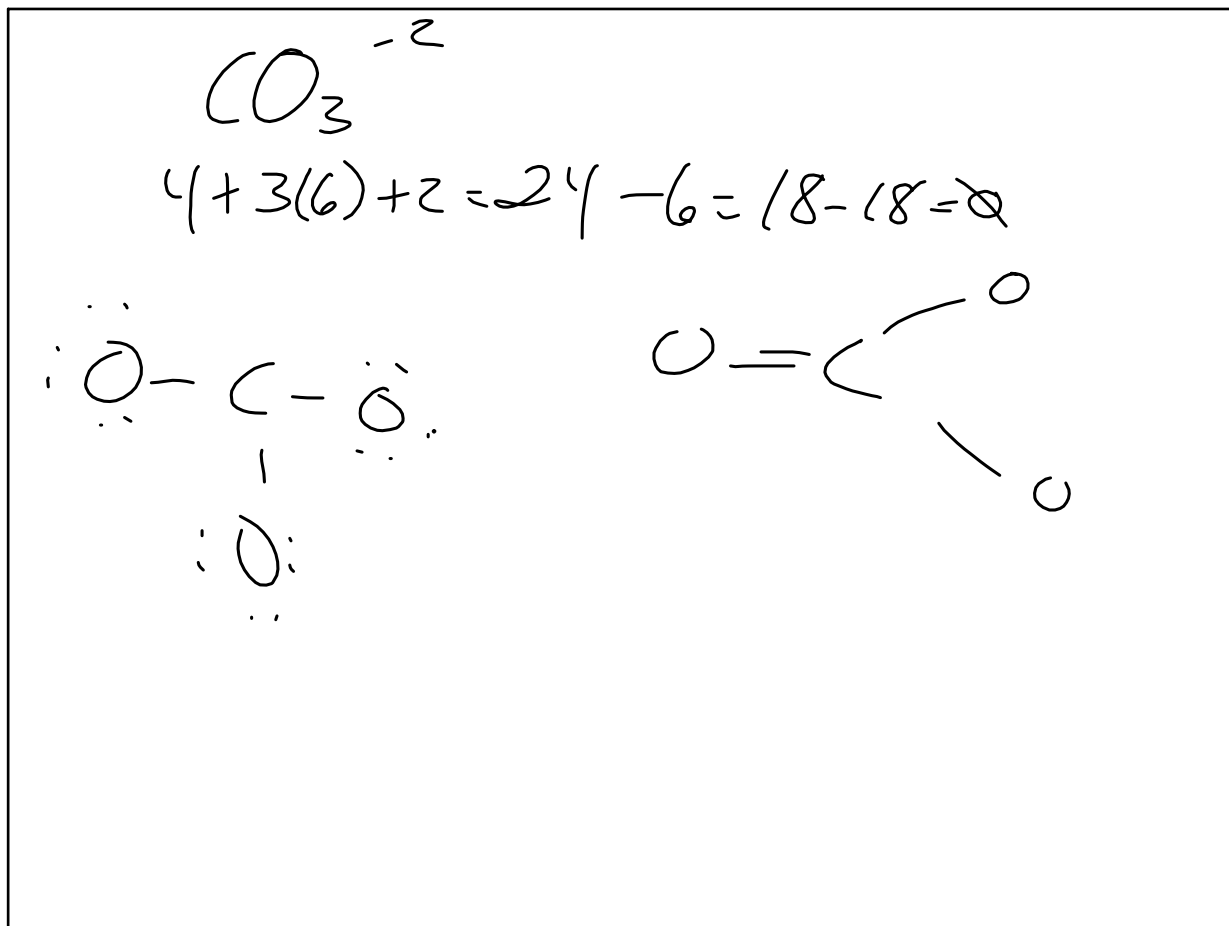
② P_2

$$2(5) = 10$$

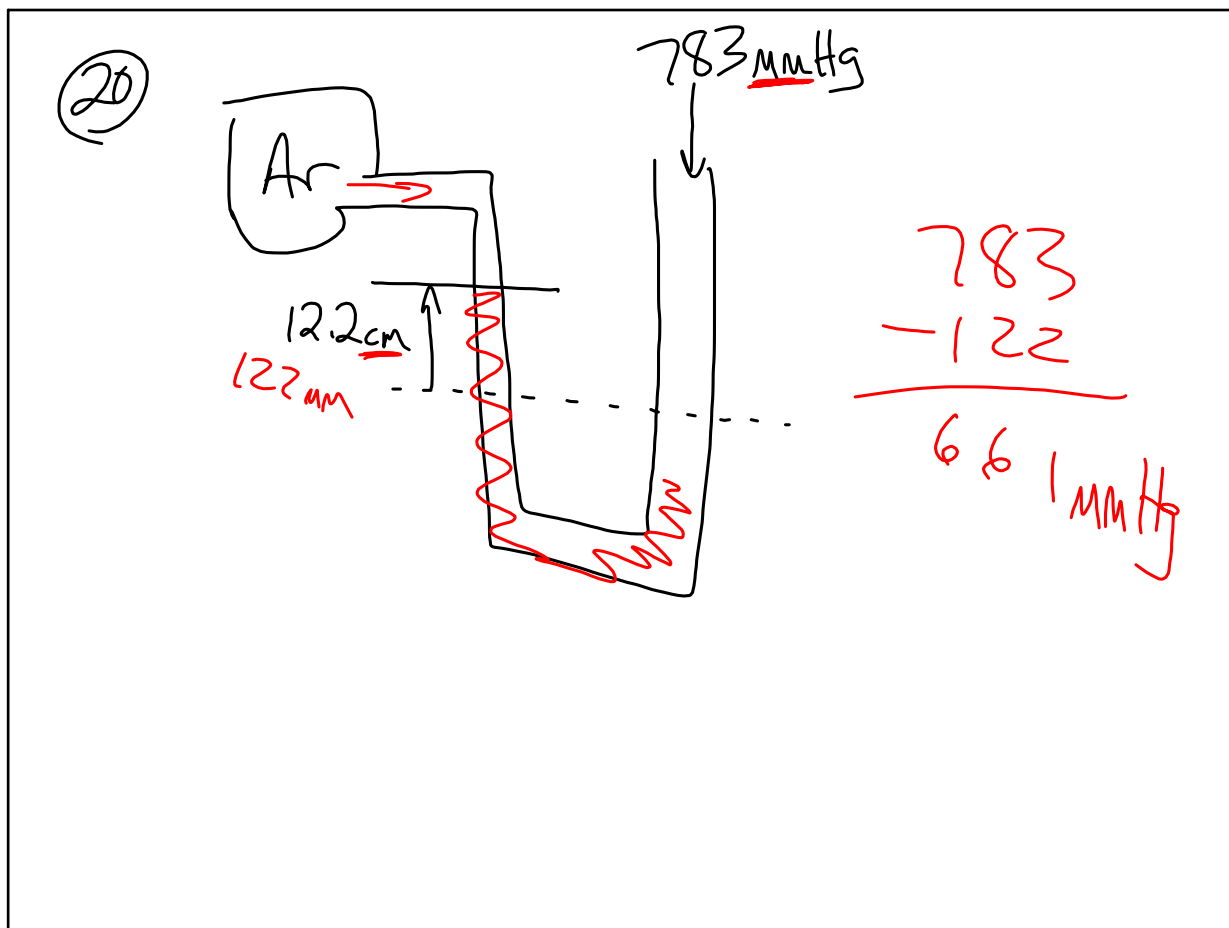
$$\frac{10}{2} = 5$$



Dec 15-7:59 AM



Dec 15-8:15 AM



Dec 15-8:16 AM

②①

$$\frac{V}{T} = \frac{V}{T}$$

$$\frac{4.39}{317} = \frac{3.78}{T_2}$$

$$T_2 = 272.95 \text{ K}$$

$$273 \text{ K} \rightarrow \underline{0^\circ \text{C}}$$

Dec 15-8:18 AM

②②

$$P_A = X_A P_T$$

$$P_A = \frac{2}{7} (2.6)$$

$$\underline{0.74 \text{ atm}}$$

②③

$$PV = nRT$$

Dec 15-8:20 AM

$$\textcircled{25} \quad P_T = P_{\text{He}} + P_{\text{Ne}} + P_{\text{Ar}}$$

$$8.4 = 1.5 + 2.0 + \textcircled{4.9}$$

$$P_{\text{Ar}} = X_{\text{Ar}} P_T$$

$$\frac{4.9}{8.4} = X_{\text{Ar}} \frac{8.4}{8.4}$$

Dec 15-8:23 AM

$$\textcircled{27} \quad PV = nRT$$

$$\frac{PV}{1} = \frac{gRT}{MW}$$

$$\frac{MW}{1} = \frac{gRT}{PV} = 45.97 \text{ g/mole}$$

Dec 15-8:24 AM

(EC1) $100^{\circ}\text{C} \rightarrow 200^{\circ}\text{C}$ ~~$\frac{200}{100} = 2$~~

$373 \rightarrow 473$ $\frac{473}{373} = 1.268$

(2) $P_T = P_{\text{wet}} P_A$
 $4 = 2.75 \times 1.25$

$P_A = X_A P_T$
 $1.25 = X_A 4$
 $X_A = 0.3125 = \frac{X}{16}$

$S_{\text{mol } A}$

Dec 15-8:26 AM