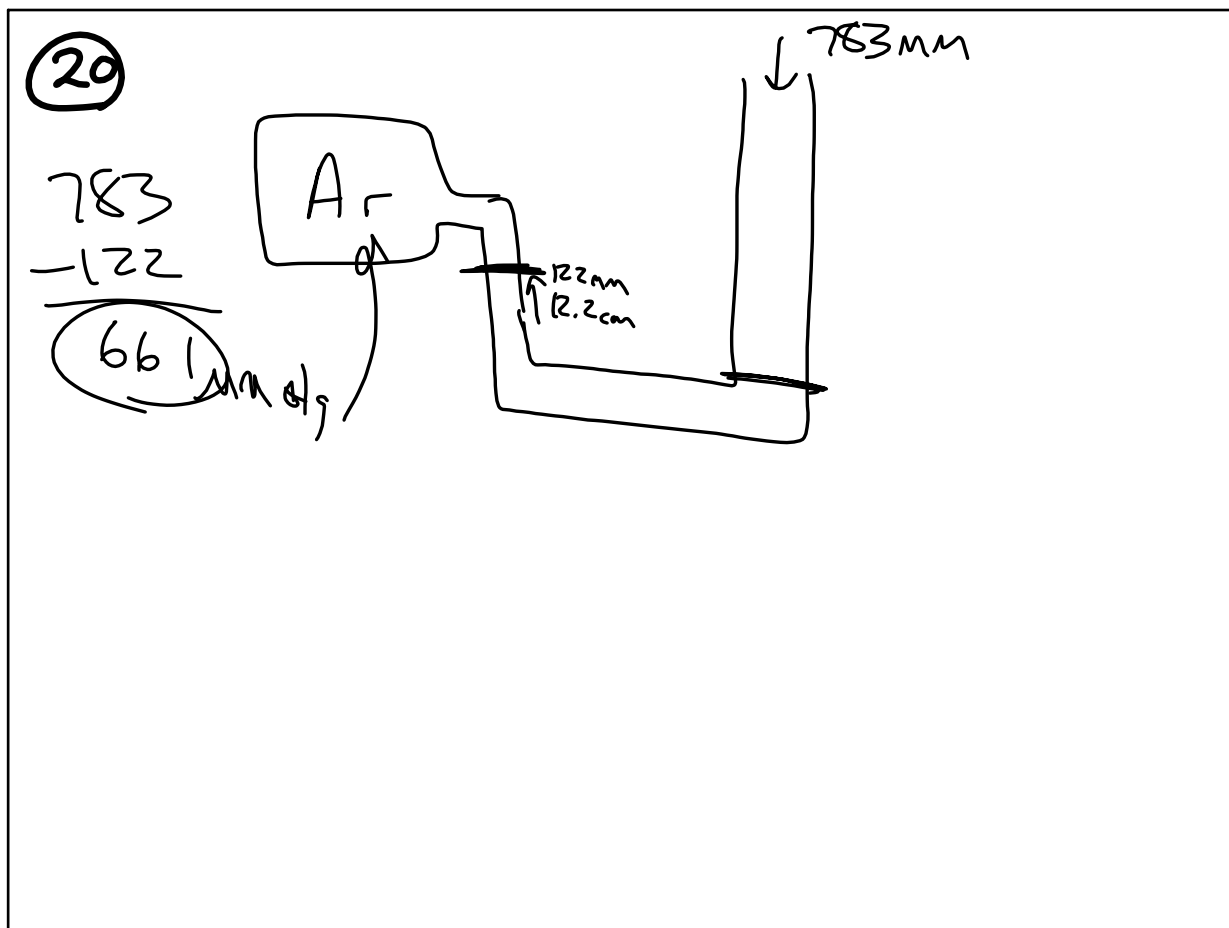


Dec 18-9:53 AM



Dec 18-10:11 AM

(21)

$$V_1 = 4.30$$

$$T_1 = 44^\circ\text{C}$$

~~$$P_1 = 729 \text{ torr}$$~~

$$V_2 = 3.78 \text{ L}$$

$$T_2 = ?$$

~~$$P_2 = 729 \text{ torr}$$~~

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{4.3}{317} = \frac{3.78}{T_2}$$

$$T_2 = 273 \text{ K}$$

↙ 0°C

Dec 18-10:13 AM

(EC1)

$$\frac{200^\circ\text{C}}{100^\circ\text{C}} = \frac{473\text{K}}{373\text{K}} = 1.27 \times$$

(EC2)

$$P_T = P_{\text{wet}} + P_{\text{Ar}}$$

$$4 = 2.75 + P_{\text{Ar}}$$

$$P_{\text{Ar}} = 1.25 \text{ atm}$$

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

$$1.25 = X_{\text{Ar}} 4$$

$$X_{\text{Ar}} = 0.3125$$

$$\frac{X}{16} = 0.3125$$

Dec 18-10:18 AM