

$$\begin{aligned}
 P_1 &= 1.05 \text{ atm} \\
 P_2 &= 2.4 \text{ atm} \\
 V_1 &= 205 \text{ ml} / 1000 = 0.205 \\
 V_2 &= ? \\
 T_1 &= 20^\circ + 273 = 293 \\
 T_2 &= 60^\circ + 273 = 333
 \end{aligned}$$

$$V_2 = \frac{1.05 \text{ atm} \cdot 0.205 \text{ L} \cdot 333 \text{ K}}{2.4 \text{ atm} \cdot 293 \text{ K}}$$

$$V_2 = 0.101 \text{ L}$$

$$\begin{aligned}
 20 \quad P_1 &= 920 \text{ mmHg} / 760 = 1.21 \text{ atm} \\
 P_2 &= ? \\
 V_1 &= 440 \text{ ml} / 1000 = 0.44 \text{ L} \\
 V_2 &= 5.6 \text{ L} \\
 T_1 &= 70^\circ + 273 = 343 \text{ K} \\
 T_2 &= 100^\circ + 273 = 373 \text{ K}
 \end{aligned}$$

$$P_2 = \frac{1.21 \text{ atm} \cdot 0.44 \text{ L} \cdot 373 \text{ K}}{5.6 \text{ L} \cdot 343 \text{ K}}$$

$$P_2 = 0.103 \text{ atm}$$