

# Solución

1  $V_2 = ?$

$$T_1 = 20^\circ\text{C} + 273 = 293$$

$$P_1 = 1,05 \text{ atm}$$

$$V_1 = 205 \text{ ml} / 1000 = 0,2$$

$$T_2 = 60^\circ\text{C} + 273 = 333$$

$$P_2 = 2,4 \text{ atm}$$

$$V_2 = \frac{(1,05) (0,2) (333)}{(2,4) (293)}$$

$$V_2 = 0,099$$

2  $P_2 = ?$

$$V_1 = 440 \text{ ml} / 1000 = 0,44$$

$$T_1 = 70^\circ\text{C} + 273 = 343$$

$$P_1 = 920 \text{ mmHg} / 760 = 1,2$$

$$V_2 = 5,6 \text{ L}$$

$$T_2 = 100^\circ\text{C} + 273 = 373$$

$$P_2 = \frac{(1,2) (0,44) (373)}{(5,6) (343)}$$

$$P_2 = 0,10 \text{ atm}$$