Answer:

From the gas laws we know that

$$\frac{P_1 \cdot V_1}{T_1} = \frac{P_2 \cdot V_2}{T_2} \,.$$

From the condition of the task we also know that volume doesn't change $V_1 = V_2$

Than formula will be

$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$

 P_1 = 790. mmHg P_2 =740. mmHg. T_1 =50 °C

$$T_2 = \frac{P_2 \cdot T_1}{P_1}$$

T₂=46,8 °C

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