

$$P_2 = 973,15$$

T_2

$$\frac{(571,15)(473,15)}{790}$$

790

Solution

1) $P_1 = 790$

$T_1 = 298,15 \text{ K}$

$P_2 = ?$

$T_2 = 473,15 \text{ K}$

$$\frac{790 \cdot 473,15}{298,15} = 1,25 \text{ mmHg}$$

2) $P_1 = 3 \text{ atm}$

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

$P_2 = 9 \text{ atm}$

$T_2 = ?$

$$\frac{293 \cdot 9}{3} = 879 \text{ K}$$

3) $P_1 = 790 \text{ mmHg}$

$T_1 = 25^\circ\text{C} + 273 = 298 \text{ K}$

$P_2 = ?$

$T_2 = 200^\circ\text{C} + 273 = 473 \text{ K}$

$$\frac{790 \cdot 473}{298} = 1,25 \text{ mmHg}$$