Answer on Question 74923 in General Chemistry.

V_0=9.10 L

.t_0=198° C

V_1=2.50 L

P=const

t_1=?

According to the Gay-Lussak's law (p=const)

$$\frac{V_0}{T_0} = \frac{V_1}{T_1}$$

$T_1 = \frac{T_0 \times V_1}{V_0} = \frac{471 \times 2.50}{9.10}$ =129.4 K

For solving the task we translate the 198 $^{\circ}$ C into K

T_0=t+273=198+273=471 K

.t_1=T_1-273=129.4-273=-143.6° C