

20/01/14

$$T = t$$

$$T(t) = \begin{cases} \frac{7}{5}t + 20, & \text{para } 0 \leq t < 100 \\ \frac{2}{125}t - \frac{16}{5}t + 120, & \text{para } t \geq 100 \end{cases} \quad \begin{cases} 0 \leq T < 100 \\ T \geq 100 \end{cases}$$

$$T_0 = 48^\circ\text{C}$$

$$t = ?$$

$$\frac{7}{5}t + 20 = 48 \Rightarrow t = \frac{48 - 20}{\frac{7}{5}} = \frac{28 \cdot 5}{7} = 20$$

$$T_{\text{eq}} = 200^\circ\text{C}$$

$$T = 152^\circ\text{C}$$

$$T(t) = A - 52(t) = \frac{7}{5}(52) + 20 = 92,8$$

$$T_1 = 100 - T_0 = 52$$

$$T_2 = T - T_1 = 100^\circ\text{C}$$

$$T_3 = T_1 + T_2 = T$$

$$t = T(t_1) + T(t_2) = 94,4$$

$$100(t) = \frac{2}{125}(100) - \frac{16}{5}(100) + 120 = 1,6$$

$$T =$$

$$\text{para } T_1$$

$$52(t) = \frac{7}{5}t + 20$$

$$52t = \frac{7}{5}t + 20$$

$$\frac{52t}{52} = \frac{\frac{7}{5}t + 20}{52}$$

$$T(t) = \frac{7}{5}(52) + 20 = 92,8$$

(1x):

$$\frac{t}{1} = \frac{\frac{7}{5}t + 20}{52}$$

$$T(t) = \frac{2}{125}(100) - \frac{16}{5}(100) + 120 = 1,6$$

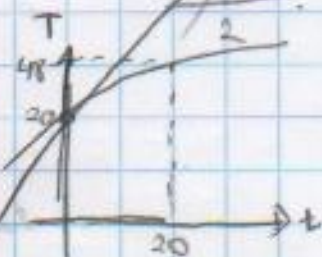
$$T(t) = \frac{2}{125}(152) - \frac{16}{5}(152) + 120 =$$

$$\frac{7}{5}(48) = \frac{7}{5}(48) + 20$$

$$48t = \frac{7}{5}t + 20$$

$$\frac{7t + 48t}{5} = \frac{20}{48}$$

$$t = \frac{20}{48} = \frac{5}{12}$$



$$48 = \frac{7}{5}t + 20$$

$$\left(\frac{7}{5}t\right) = 48 - 20$$

$$-7t + 5t = -20$$

$$t = -\frac{20}{2}$$

$$t = 10$$

$$48 = \frac{7}{5}t + 20$$

$$t = \frac{48 - 20}{\frac{7}{5}} = \frac{28 \cdot 5}{7} = 20$$

$$48 = \frac{7}{5}t + 20$$

$$48 - 20 = \frac{7}{5}t$$

$$28 = \frac{7}{5}t$$

$$28 \cdot 5 = 7t$$

$$140 = 7t$$

$$\frac{140}{7} = t$$

$$20 = t$$