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Electrical Engineering

Question

$T_1$  of thermometer  $25^\circ\text{C}$

$T_2$  of liquid  $20^\circ\text{C}$

Time taken  $\propto$   $\Delta T = 30$  sec

Actual Temp =  $(\Delta T) = 24.9^\circ\text{C}$

2.  $\Delta T = 5^\circ\text{C}$

If from  $IT$  to  $ST = 20^\circ\text{C} - 15^\circ\text{C} = 5^\circ\text{C}$

and it takes 30 sec to cover  $5^\circ\text{C}$

So  $5^\circ\text{C} = \frac{1}{2}$  of 30 sec

$= 5^\circ\text{C} = 2.5$  sec. (to move from  $20^\circ\text{C}$

to  $25^\circ\text{C}$ )

$25^\circ\text{C} = 2.5$  sec

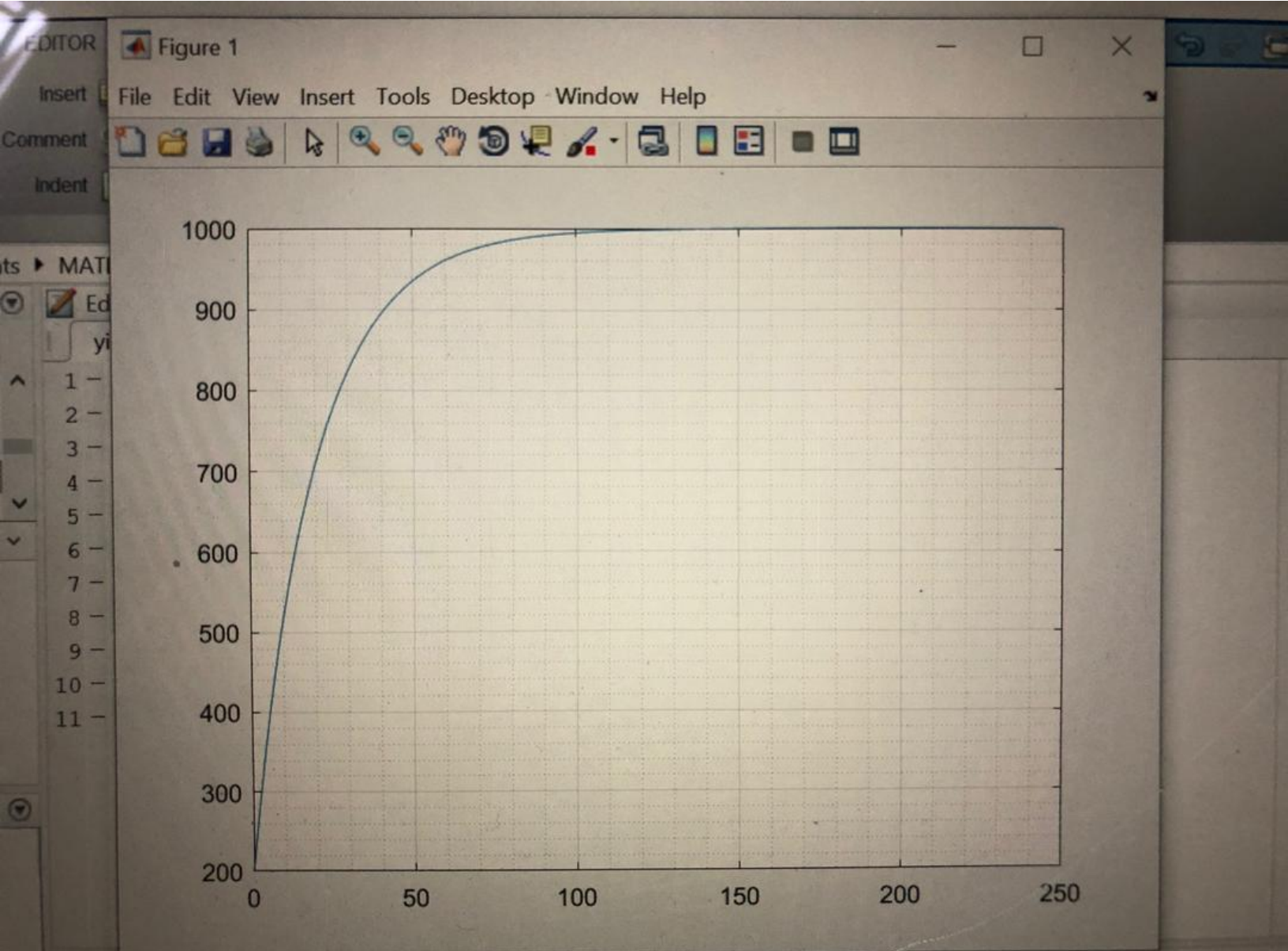
$24.9^\circ\text{C} = ?$

$$= \frac{2.5 \times 24.9}{25} \quad [25 \text{ sec} = 150 \text{ sec}]$$

$$= \frac{130 + 24.9}{25} = 6 + 24.9 = 154.9$$

$$\therefore 154.9 \times \frac{1}{2} = 77.45$$

$$= 24.9 \text{ sec} \quad \underline{\underline{24.9 \text{ sec}}}$$



- Command window

- Clear

- Clc

- Close all

- format short g

- mdata = xlsread('onlinequiz data', 'Plus1data1.xls')

- x = mdata(1:2:250, 1)

- y = mdata(1:2:250, 2)

- plot(x, y)

- grid on

- grid minor

Command window

86

88

90

92

94

96

98

100

102