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18/ENG02625

i) Initial temp (T_1) = 10°C .

Final temp (T_2) = 20°C .

Actual temp (T_3) = 25°C .

temp = 24.9°C .

taken.

Time from T_1 to T_2 = 5 min = 300 sec.

IF from T_1 to T_2 = $20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$

$\Delta T = 10^\circ\text{C}$

and 5 mins $\rightarrow 10^\circ\text{C}$.

$5^\circ\text{C} = \frac{1}{2}$ of 5 min.

$5^\circ\text{C} = 2.5$ mins (this is from $20^\circ\text{C} \rightarrow 25^\circ\text{C}$)

$\therefore 25^\circ\text{C} = 2.5$ mins.

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

$= \frac{2.5 \times 24.9}{2.5}$

2.5

25 mins = 150 sec.

$= \frac{150 \times 24.9}{2.5}$

2.5

$= 6 \times 24.9 = 149.4$

$149.4 \div 60$

$= 2.49 = 2 \text{ min } 49 \text{ sec}$

2) Command window

clear

clc

close all

format short g.

mdata = xlsread('Onlinequiz data', 'Sheet1')

X = mdata(1:2:250, 1)

Y = mdata(1:2:250, 2)

plot(X, Y)

grid on

grid minor

