



```
ATLAB
Editor - C:\Users\yimat\Documents\MATLAB\yimaquiz2.m
yimaquiz2.m x +
- commandwindow
- clear
- clc
- close all
- format short g
- mdata=xlsread('onlinequizdata','fluiddata')
- 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
fx 102
script Ln 11 Col 11
```

Question 1

T_i of thermometer = 10°C

T_s of temperature = 20°C

Time taken = 5 minutes = 300 secs

Actual Temp = (CT) = 24.9°C

2 time (2T) = ?

If from $1T$ to $5T = 20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$

and it takes 5 mins to cover 10°C

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

= $2.5^\circ\text{C} = 2.5$ mins (to ~~make~~ move from 20°C

to 25°C)

∴ $25^\circ\text{C} = 2.5$ m

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

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

$$= \frac{150 \times 24.9}{25} = 6 \times 24.9 = 149.4$$

$$\therefore 149.4 \div 60$$

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