



```
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|
```

I

Command Window
86
88
90
92
94
96
98
100
fx 102

$$T_1 \text{ of thermo} = 10^\circ\text{C}$$

$$T_2 \text{ " temp} = 20^\circ\text{C}$$

$$\text{Time taken} = 5 \text{ minute} \times 60 = 300 \text{ secs}$$

$$\text{Actual Temp} = 24.9^\circ\text{C}$$

$$2 \text{ time } (2T) = ?$$

If from it to ST = $20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$

And it takes 5 mins to cover 10°C

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

$5^\circ\text{C} = 2.5 \text{ min}$ to move from 20°C to 2

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

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

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

$$= \frac{150 \times 24.9}{2.5} = 6 \times 24.9 = 149.4$$

$$2.5$$

$$\therefore 149.9 \div 60$$

$$= 2.49$$

$$\approx 2 \text{ mins } 5 \text{ secs}$$

