

MEMORU PERPETUAL ISTHOMA
18/ENGI 061060
MECHANICAL

Initial temperature = 10°C

Second temp = 20°C

Actual " = 25°C

Scays temp = 24.7°C

Time from IT to ST = 5 mins = 300 sec

2 Time (2T) = ??

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

and it take 5 mins to cover 10°C

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

$5^{\circ}\text{C} = 2.5$ mins (to move from 20°C to 25°C)

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

$24.7^{\circ}\text{C} = X$

$X = \frac{2.5 \times 24.7}{25} = 2.5 \text{ mins} = 150 \text{ sec}$

$= \frac{150 \times 24.7}{25} = 6 \times 2.47 = \frac{149.4}{60}$

$= 2.49 = 2 \text{ mins } 49 \text{ sec.}$

```
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

