

OBE CORNELIUS MOTA

18/ENG06/049

MECHANICAL ENGINEERING

~~ENG~~ ENG 282

1)

$T_1$  Of thermometer  $\approx 10^\circ\text{C}$

$T_2$  Of thermometer  $\approx 20^\circ\text{C}$

Time taken  $\approx 5$  minutes  $\approx 300$  seconds

$$\Delta T \approx 20 - 10 \approx 10^\circ\text{C}$$

Final  $T \approx 24.9^\circ\text{C}$

$$\Delta T_c \approx 24.9 - 10 \approx 14.9^\circ\text{C}$$

$$10^\circ\text{C} \rightarrow 300 \text{ secs}$$

$$14.9^\circ\text{C} \rightarrow x \text{ secs}$$

Cross Multiply

$$10x \approx 4470$$

$$x \approx 447$$

$$x \approx 447 \text{ seconds}$$

$$x \approx 7 \text{ minutes } 27 \text{ seconds}$$



```
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

