

OBAMA TOMIAYO 18/ENG06/050

At INITIAL TEMPERATURE it READS  $10^{\circ}\text{C}$   $T_1$   
At TEMPERATURE OF THERMOMETER AFTER SYSTEM  $T_2$   
 $= 20^{\circ}\text{C}$

$\therefore$  total time taken BETWEEN  $T_1$  AND  $T_2 = 5 \text{ MIN}$   
 $= 300 \text{ SECS}$

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

$$\text{FIND } T = 24.9^{\circ}\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^{\circ}\text{C}$$

$\therefore$  If  $10^{\circ}\text{C}$  TAKES 300 SECS  
 $14.9^{\circ}\text{C}$  TAKES  $Y$

$$10 Y = 14.9 \times 300$$

$$10 Y = 4470$$

$$Y = 447 \text{ SECONDS}$$

$$\therefore Y = 7 \text{ MINUTES AND } 27 \text{ SECONDS}$$

```
quiz2.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  
102