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DEPT: CHEMICAL ENGINEERING

MAT NO: 18/ENG 01/04

Question 1

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

$T_2$  of thermometer =  $20^\circ\text{C}$

Time taken = 5 minutes = 300 sec

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

and  $T = 24.9^\circ\text{C}$

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

$10^\circ\text{C}$  to 300 sec

$14.9^\circ\text{C}$  to  $70$

$70$  to  $300 \times 14.9$

$$70 \times 70 = 4470$$

$$70 \times 70 = 447 \text{ seconds}$$

$$70 = 7 \text{ minutes } 27 \text{ seconds}$$

```
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  
102

script

Ln 11 Col 11

