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MATRIC no: 18/ENG03/043

```
TLAB
Editor - C:\Users\yimat\Documents\MATLAB\yimaquiz2.m
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
102
script Ln 11 Col 11
```

Question 1

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

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

$$\text{Time taken} = 5 \text{ minutes} = 300 \text{ seconds}$$

$$10^\circ\text{C at } 0 \text{ sec}$$

$$20^\circ\text{C at } 300 \text{ sec}$$

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

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

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

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

$$10x + 0 = 300 \times 14.9$$

$$10x = 4470$$

$$x = 447$$

$$T = 447 \text{ seconds}$$

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

Figure 1

File Edit View Insert Tools Desktop Window Help

