

Name: Jaja Abinyo Fred  
Department: Computer Engineering  
Matric Number: 18/Eng 02/051

Question 1

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

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

$$\text{Time Taken} = 5 \text{ min} = 300 \text{ sec}$$

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

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

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

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

$$14.9 \times t = x$$

$$10x = 300 \times 14.9$$

$$10x = 4470$$

$$x = 4470 / 10$$

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

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

```
virnaquiz2.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

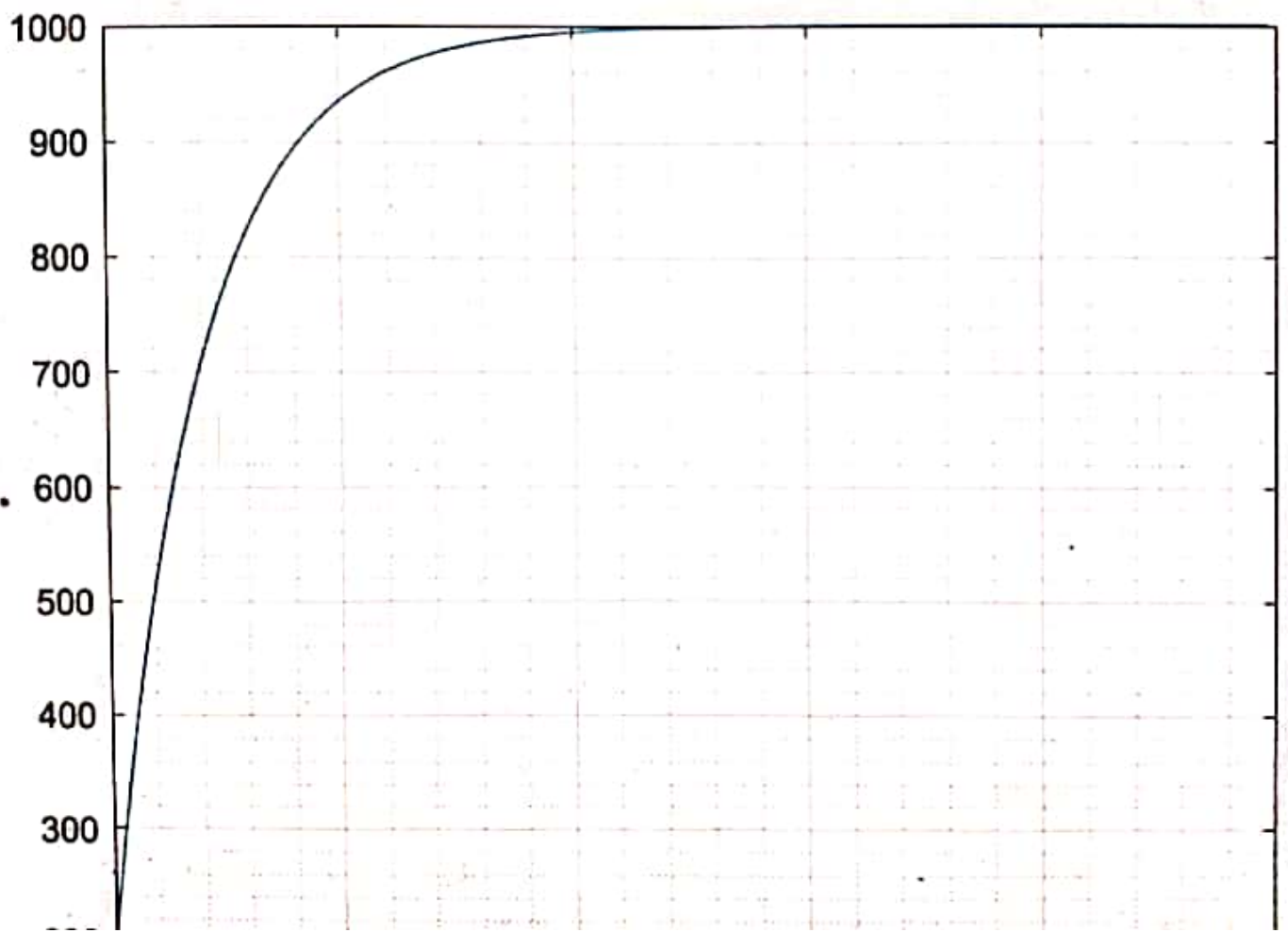
```
86
88
90
92
94
96
98
100
102
```

script

Ln 11 Col 11

Figure 1

File Edit View Insert Tools Desktop Window Help



```
virnaquiz2.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

Figure 1

File Edit View Insert Tools Desktop Window Help

