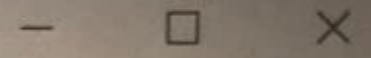
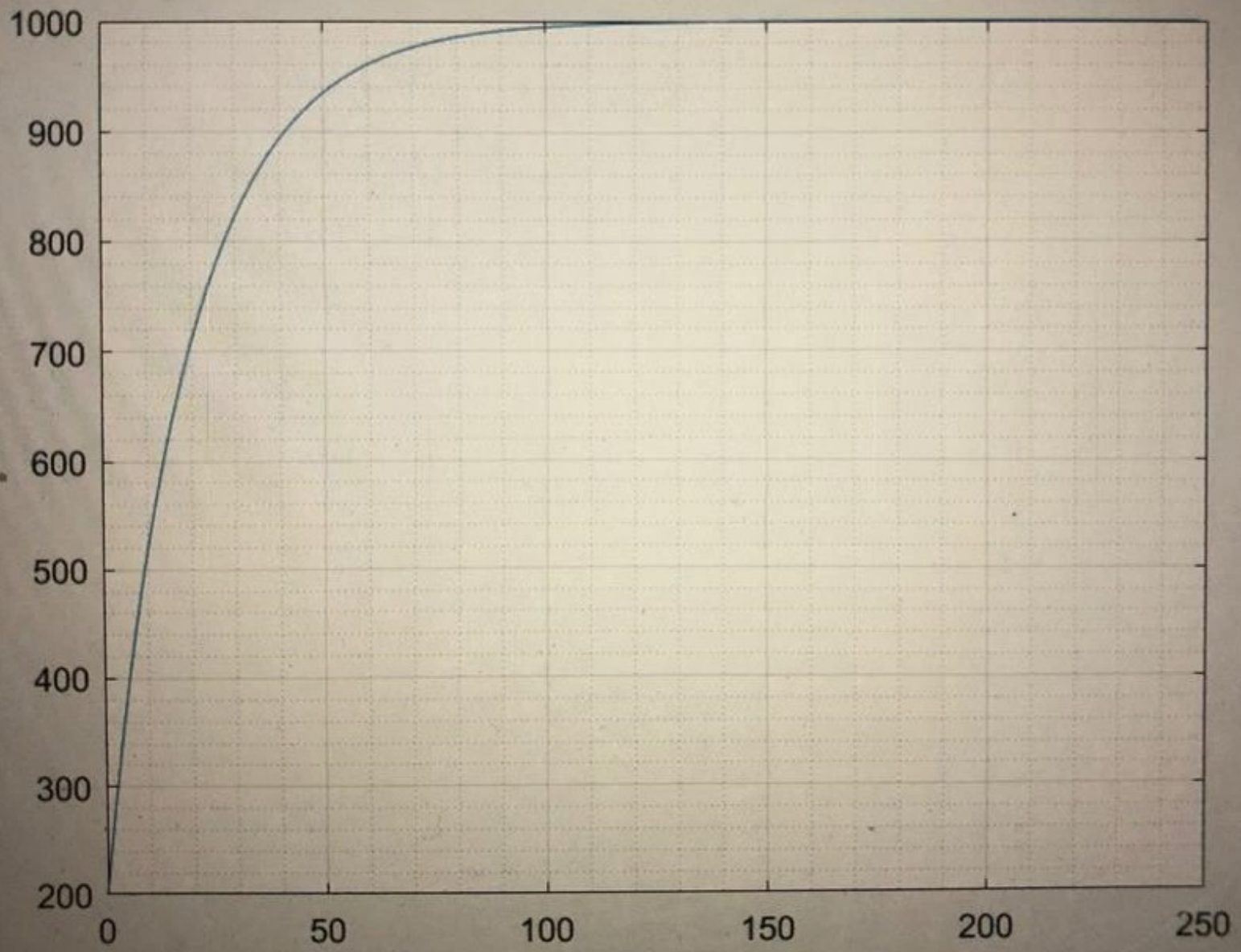
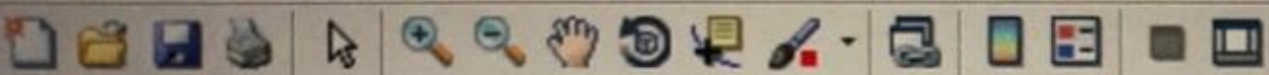


EDITOR

Figure 1



File Edit View Insert Tools Desktop Window Help



MATLAB

Edit

yi

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Ugwuaku Onyekachi Daniel

18 | ENGG04/073

Question 1

T_1 of thermometer = 10°C

T_2 of thermometer = 20°C

Time taken = 5 minutes = 300 secs (60x5)

Actual Temp = (CT) = 24.9°C

2 time (2T) = 7

If from 1T to 5T = $20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$

and it takes 5 mins to cover 10°C

$5^\circ\text{C} = \frac{1}{2}$ of 5 mins

= $5^\circ\text{C} = 2.5$ mins (to move from 20°C to 25°C)

$25^\circ\text{C} = 2.5$ m

$24.9^\circ\text{C} = 7$

$$= \frac{2.5 \times 24.9}{25} \quad [25 \text{ min} = 150 \text{ Secs}]$$

$$= \frac{150 \times 24.9}{25} = 6 \times 24.9 = 149.4$$

$$\therefore 149.4 \div 60$$

$$= 2.49 \approx 2 \text{ min}$$

49 Sec

```
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
```