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18/Engo2/004

Computer Engineering

Question 1

T_i of thermometer = 10°C

T_o of temperature = 20°C

Time taken = 5 minutes = 300 seconds

Actual Temp = (CT) = 24.9°C

2 time (2T) = ?

If from 10°C to 20°C = 10°C = 10°C

and it takes 5 mins to cover 10°C

5°C = $\frac{1}{2}$ of 5 mins

= 5°C = 2.5 mins (to ~~reach~~ move from 20°C

to 25°C)

or 25°C = 2.5m

24.9°C = ?

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

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

$$\therefore 149.4 \div 60$$

25

$$= 2.49 \quad \text{or } 2 \text{ mins } 29 \text{ secs}$$

$$2.49 \frac{\Omega}{\text{min}} = 2 \text{ mins } 29 \text{ secs}$$

2 mins 27 secs + 5 mins

= 7 mins 27 secs

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
```

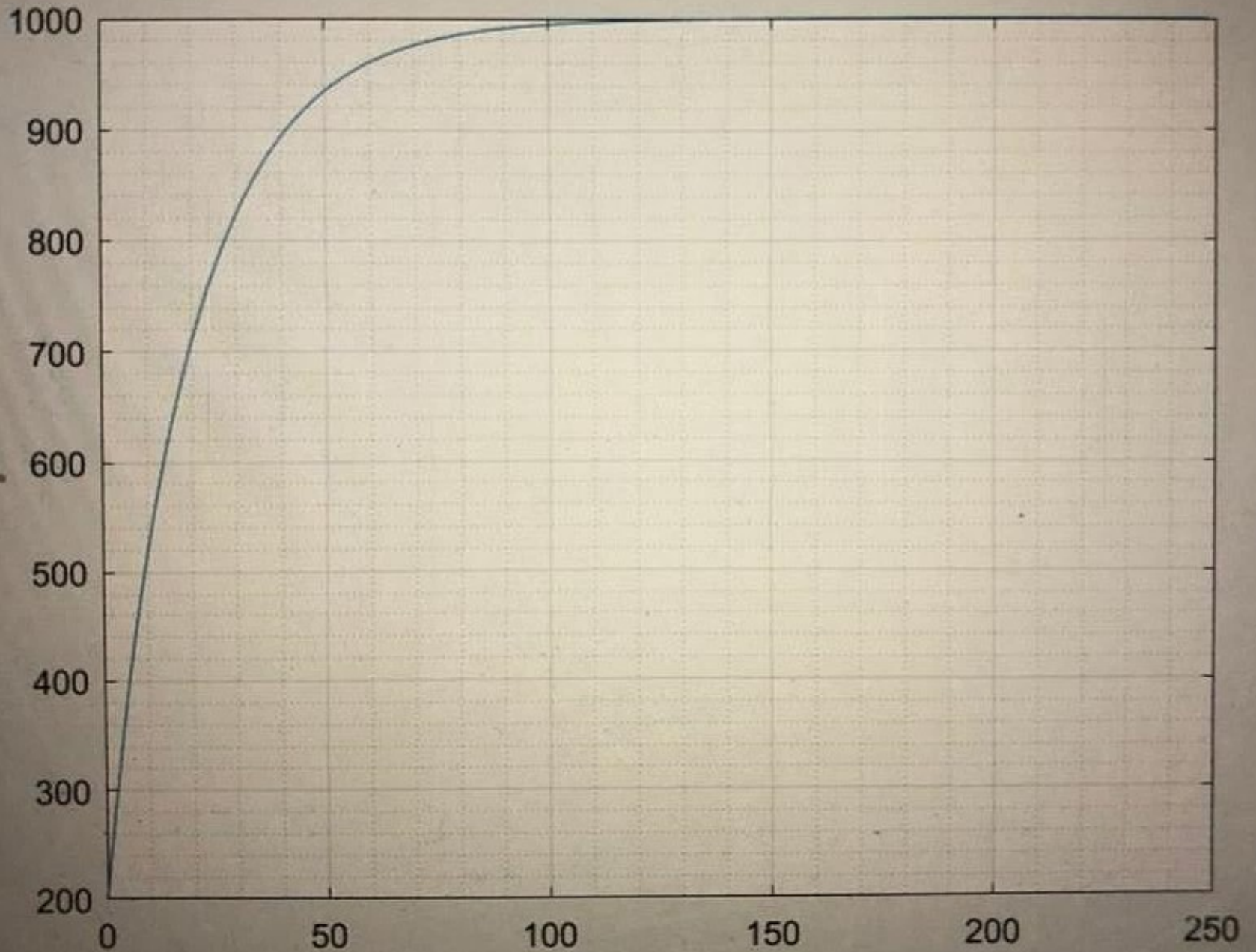
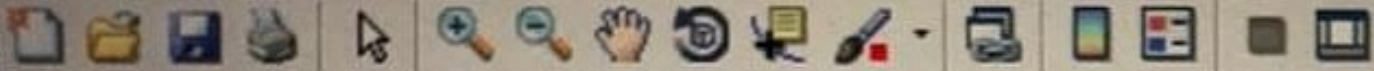
I

Command Window

86
88
90
92
94
96
98
100
102

script

Ln 11 Col 11



MATI

Ed
yi

- 1 -
- 2 -
- 3 -
- 4 -
- 5 -
- 6 -
- 7 -
- 8 -
- 9 -
- 10 -
- 11 -