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18/ENGG03/020
ENGG 282 ~~TEST~~ QUIZ
Civil Engineering

Question 1

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

$$T_o \text{ of temperature} = 20^\circ\text{C}$$

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

$$\text{Actual Temp} = (C_i) = 24.9^\circ\text{C}$$

$$\text{2 time } (C_2) = ??$$

$$\text{If from } T_i \text{ to } S_T = 20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$$

and it takes 5 mins to cover 10°C

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

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

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

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

$$= \frac{2.5 \times 24.9}{25} \quad (25 \text{ min} = 150 \text{ secs})$$

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

$$\therefore 149.4 \div 60$$

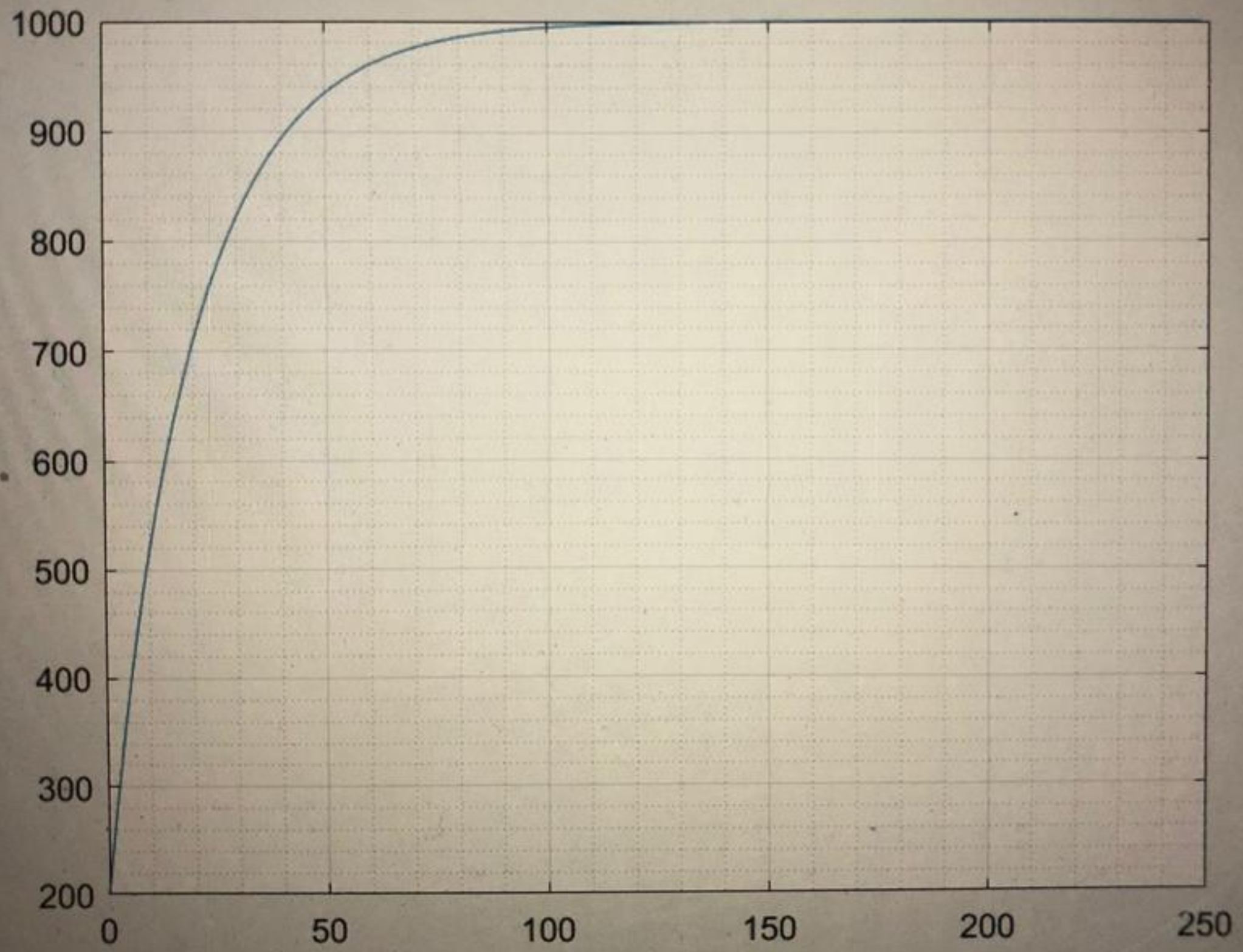
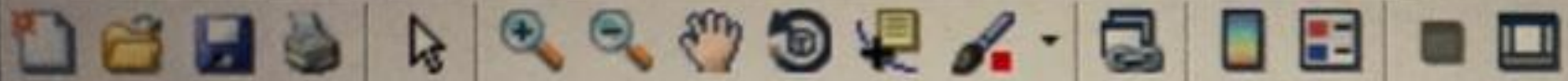
$$= 2.49 \underline{\underline{= 2 \text{ mins } 49 \text{ secs}}}$$

EDITOR

Figure 1



File Edit View Insert Tools Desktop Window Help



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```
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