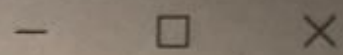


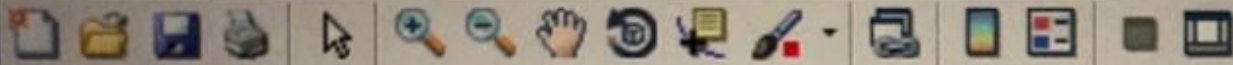
EDITOR

Figure 1



Insert File Edit View Insert Tools Desktop Window Help

Comment

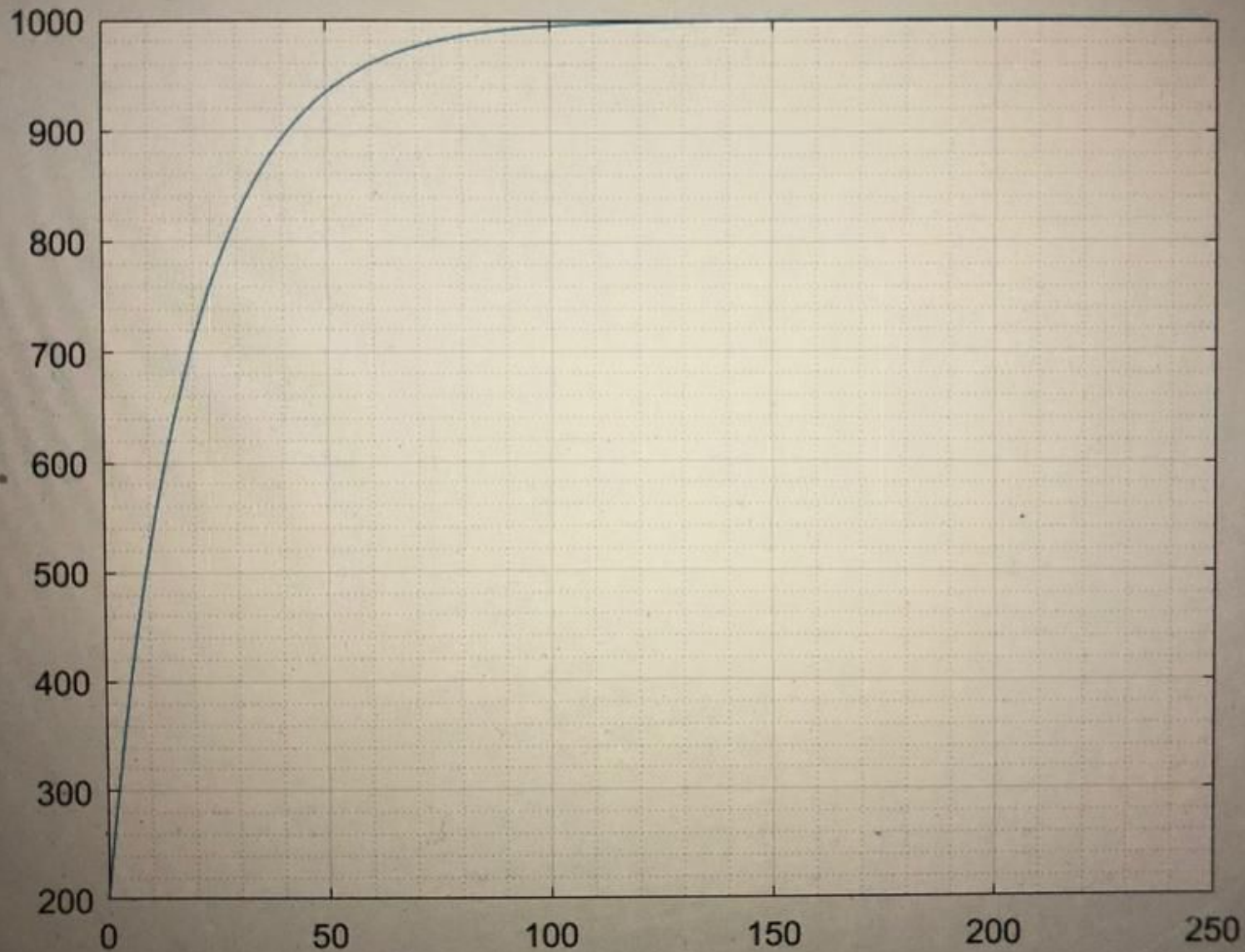


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```
ATLAB
Editor - C:\Users\yimat\Documents\MATLAB\yimaquiz2.m
yimaquiz2.m x +
- commandwindow
- clear
- clc
- close all
- format short g
- mdata=xlread('onlinequizdata','fluiddata')
- x=mdata(1:2:250,1)
- y=mdata(1:2:250,2)
- plot(x,y)
- grid on
- grid minor
I
```

```
Command Window
86
88
90
92
94
96
98
100
fx 102
```

Akromudjere Oghegetekerwe Oproche
18/ENG06/006
Mechanical Engineering
ENG 2P2

Question 1

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

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

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

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

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

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

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

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

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

$$10x \text{ to } 300 \times 14.9$$

$$10x = 4470$$

$$x = 447$$

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

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