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18/ENR004/061
Elect/Elect

Initial temp (ST) = 20°C time from 77 to 87
= 5 mins = 300 sec

Actual temp (AT) = 25°C

Temp (CT) = 24.9°C 2 Time (2T) = ??

If from 77 to 87 = $20^{\circ}\text{C} - 10^{\circ}\text{C} = 10^{\circ}\text{C}$
and it takes 5 mins to cover 10°C

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

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

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

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

$$= \frac{2.5 \times 24.9}{2.5} \left\{ 2.5 \text{ min} = 150 \text{ sec} \right\}$$

$$= \frac{150 \times 0.4}{2.5} = 6 \times 24.9 = 149.4$$

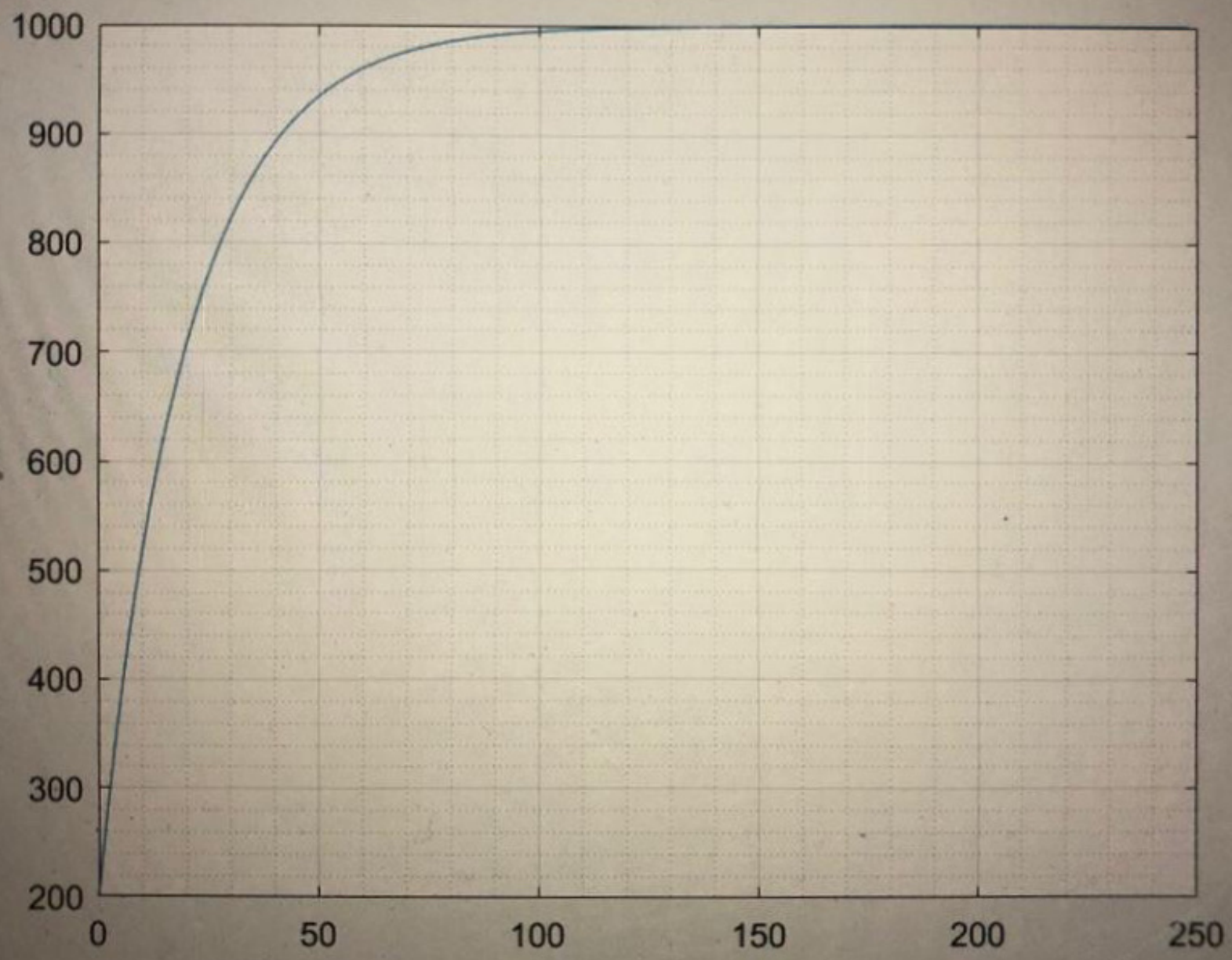
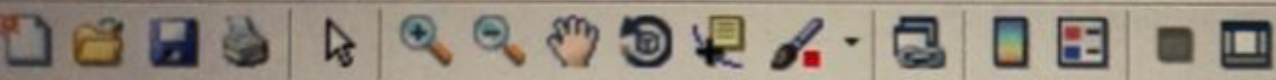
25

$$\therefore 149.4 \div 60$$

$$= 2.49 = 2 \text{ min } 49 \text{ sec}$$

Figure 1

File Edit View Insert Tools Desktop Window Help




```
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