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Course: ENG 282

Question 1

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

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

Time taken = 5 minutes = 300 secs

$\Delta T = 20 - 10 = 10^\circ\text{C}$  Actual Temp (AT) =  $25^\circ\text{C}$

Find  $F = 2$

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

2 Time (2T) = ??

If from IT to ST =  $20^\circ\text{C} - 10^\circ\text{C} = 10^\circ\text{C}$

and it takes 5 mins to cover  $10^\circ\text{C}$

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

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

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

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

$$= \frac{2.5 \times 24.9}{25} \quad \left\{ \begin{array}{l} 2.5 \text{ mins} = 150 \text{ secs} \end{array} \right.$$

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

25

$$\therefore 149.4 \div 60$$

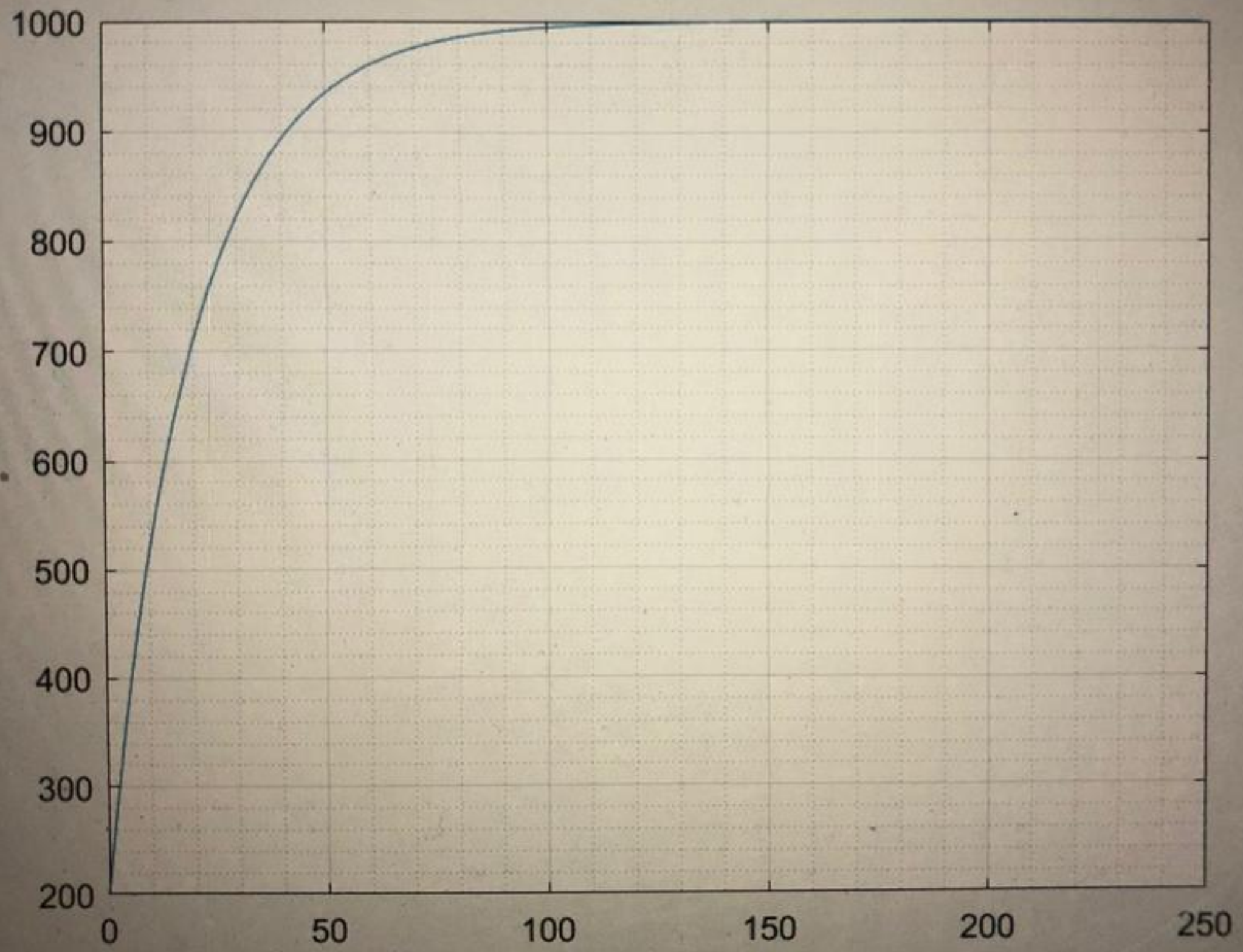
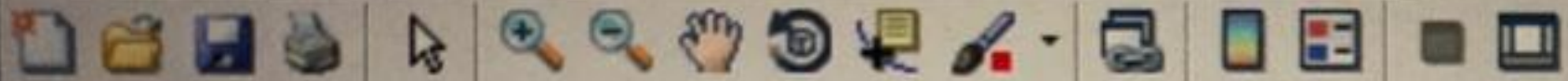
$$= 2.49 = 2 \text{ mins } 49 \text{ secs} //$$

EDITOR

Figure 1



File Edit View Insert Tools Desktop Window Help



ts ▶ MATI

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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  
fx 102