

$$\text{Initial temp (IT)} = 10^{\circ}\text{C}$$

$$\text{Second temp (ST)} = 20^{\circ}\text{C}$$

$$\text{Actual Temp (AT)} = 25^{\circ}\text{C}$$

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

$$\text{Time from IT to ST} = 5 \text{ mins} = 300 \text{ sec}$$

$$2 \text{ Time (2T)} = ??$$

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

and it take 5mins to cover 10°C \therefore

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

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

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

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

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

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

$$\therefore 149.4 \div 60$$

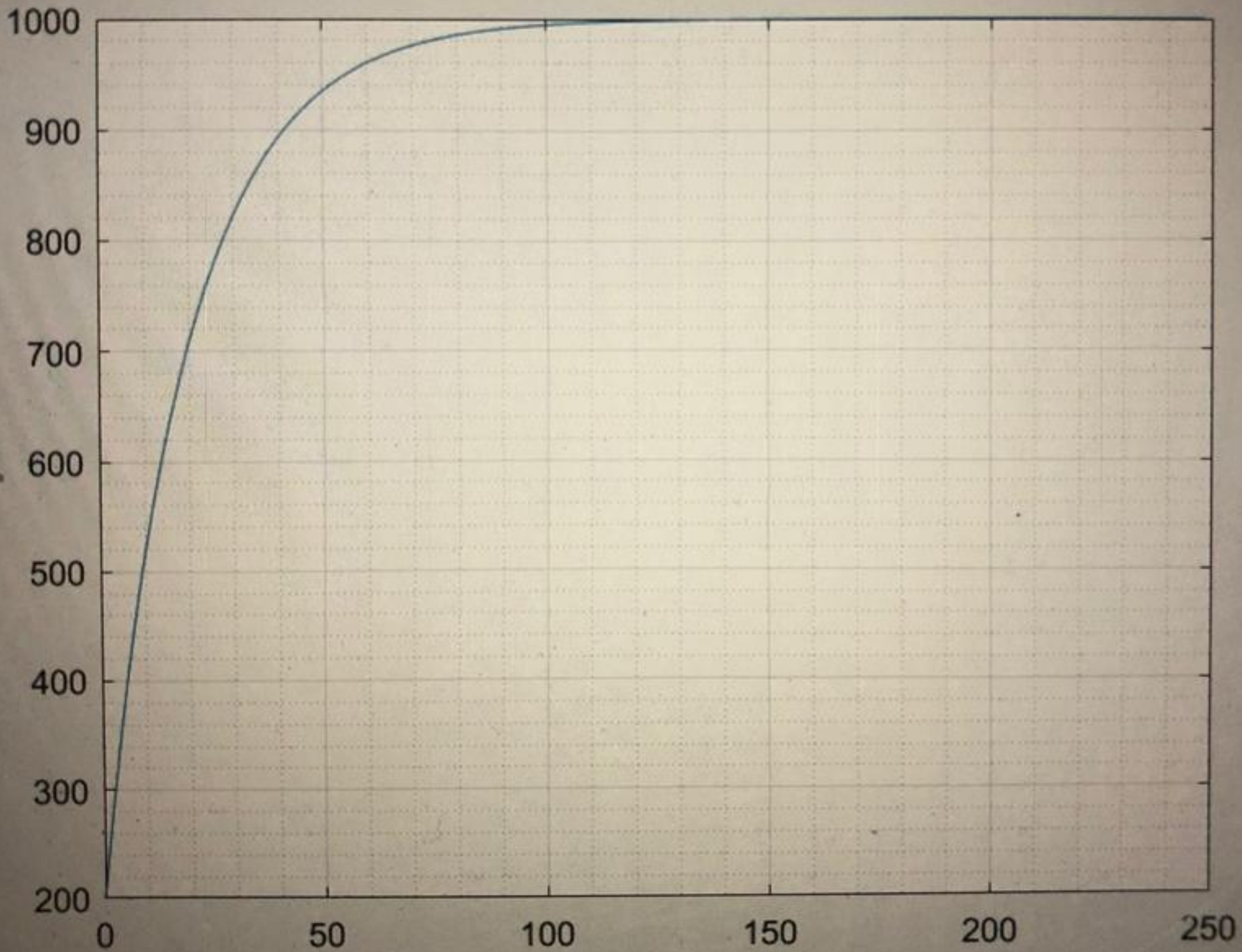
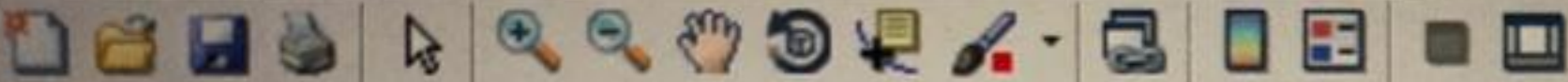
$$= 2.49 \Rightarrow 2 \text{ mins } 49 \text{ sec}$$

```
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



ts ▶ MATI

Ed

yi

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2 -

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