

OFFERVADE Fina 18/5/2019

T_1 of therm = 10°C

T_2 of temp = 20°C

Time taken = 5 minutes $\times 60 = 300 \text{ sec}$

Actual $T_{\text{temp}} = 24.9^\circ\text{C}$

2 time (2T) = ?

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

And it takes 5 mins to cover 10°C

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

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

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

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

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

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

$$\therefore 149.4 \div 60$$

$$= 2.49$$

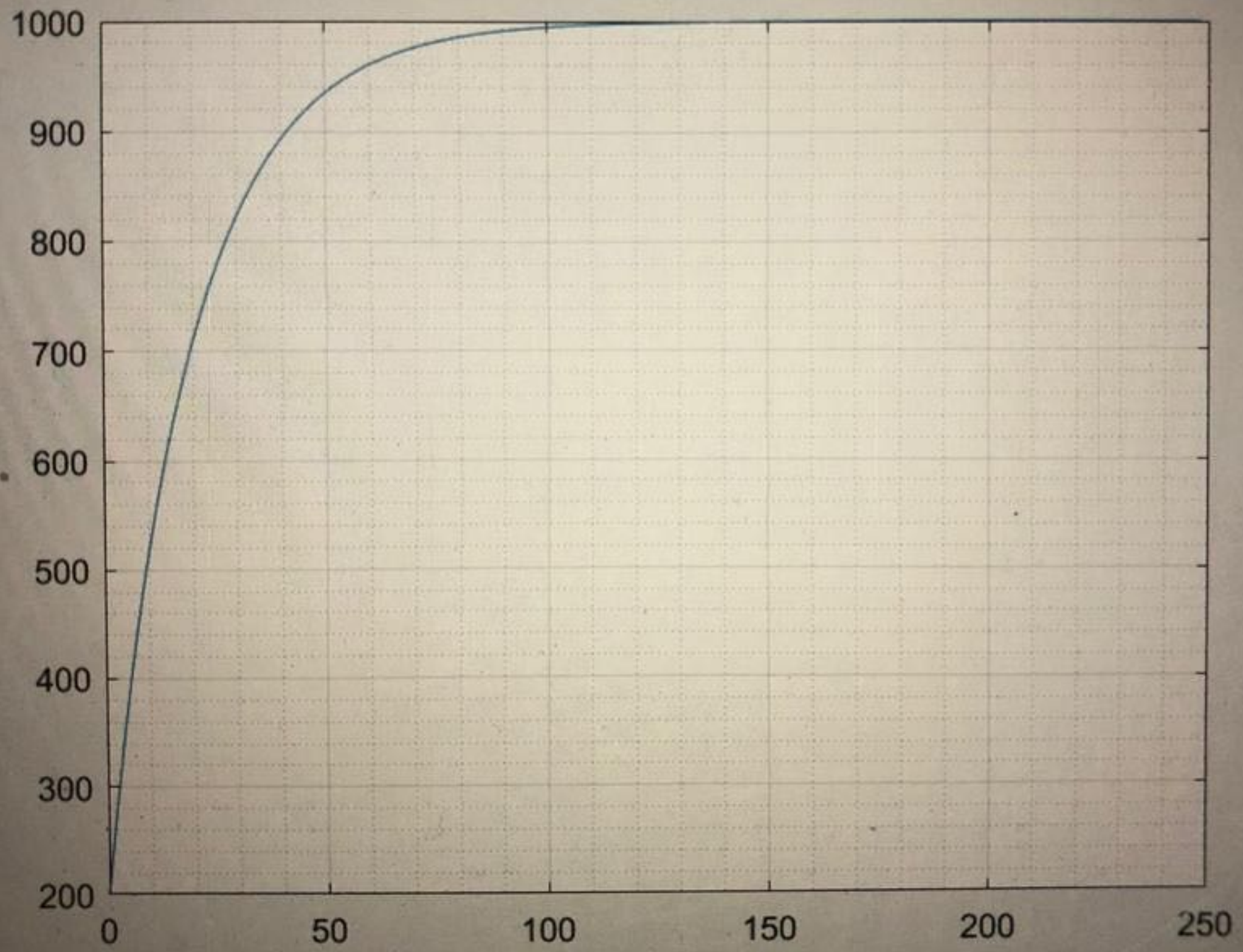
\Rightarrow 2 mins 5 sec

EDITOR

Figure 1



File Edit View Insert Tools Desktop Window Help



ts ▶ MATI

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1 -

2 -

3 -

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10 -

11 -



```
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