

THE CHEMIST CHIRUMUWA ARLOLO

BLEND 2154.

Initial temp (IT) = 10°C

Time from IT to ST = 300 sec

second temp (ST) = 20°C

Actual temp (AT) = 25°C

CT = 24.9°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°C

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

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

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

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

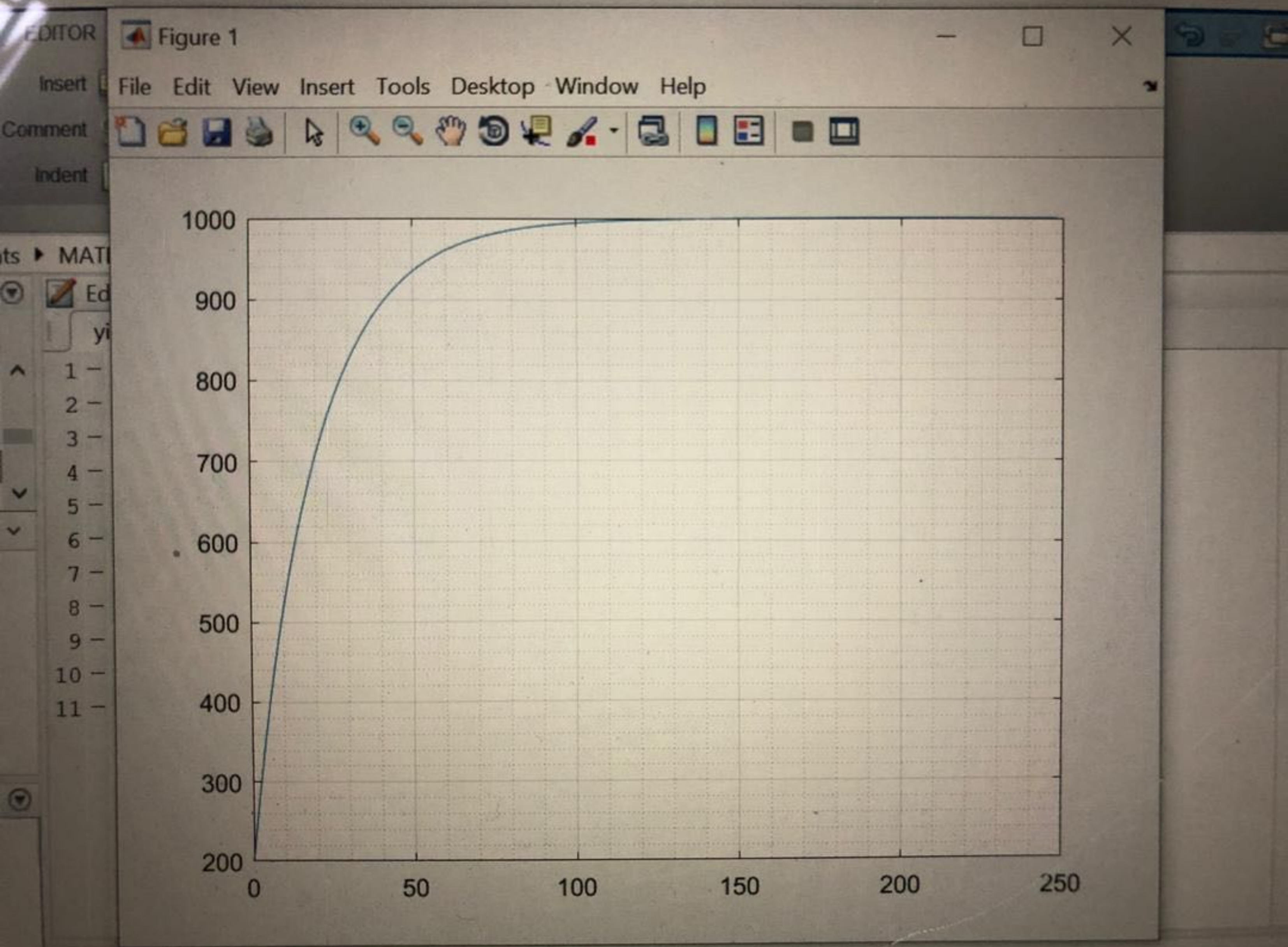
$= \frac{2.5 \times 24.9}{2.5}$ (2.5 min = 150 sec)

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

$\therefore 149.4 \div 50$

$= 2.988 = 2$ min 49 sec,

2 minutes 49 seconds.



ATLAB

Editor - C:\Users\yimat\Documents\MATLAB\yimaquiz2.m

```
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
```

script Ln 11 Col 11