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Matric: 18/ENG07/003

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Initial temp. (IT) = 10°C Second Temp (ST) = 20°C

Actual temp. (AT) = 25°C

Sees Temp (CT) = 24.9°C ②

Time from IT to ST = 5 mins = ~~240~~ $5 \times 60 = 300$ seconds

2 Time (2T) = ?

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

and it takes 5 mins to cover 10°C

$\frac{1}{2}$ of 5 mins = 2.5 mins

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

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

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

$$= \frac{2.5 \times 24.9}{25}$$

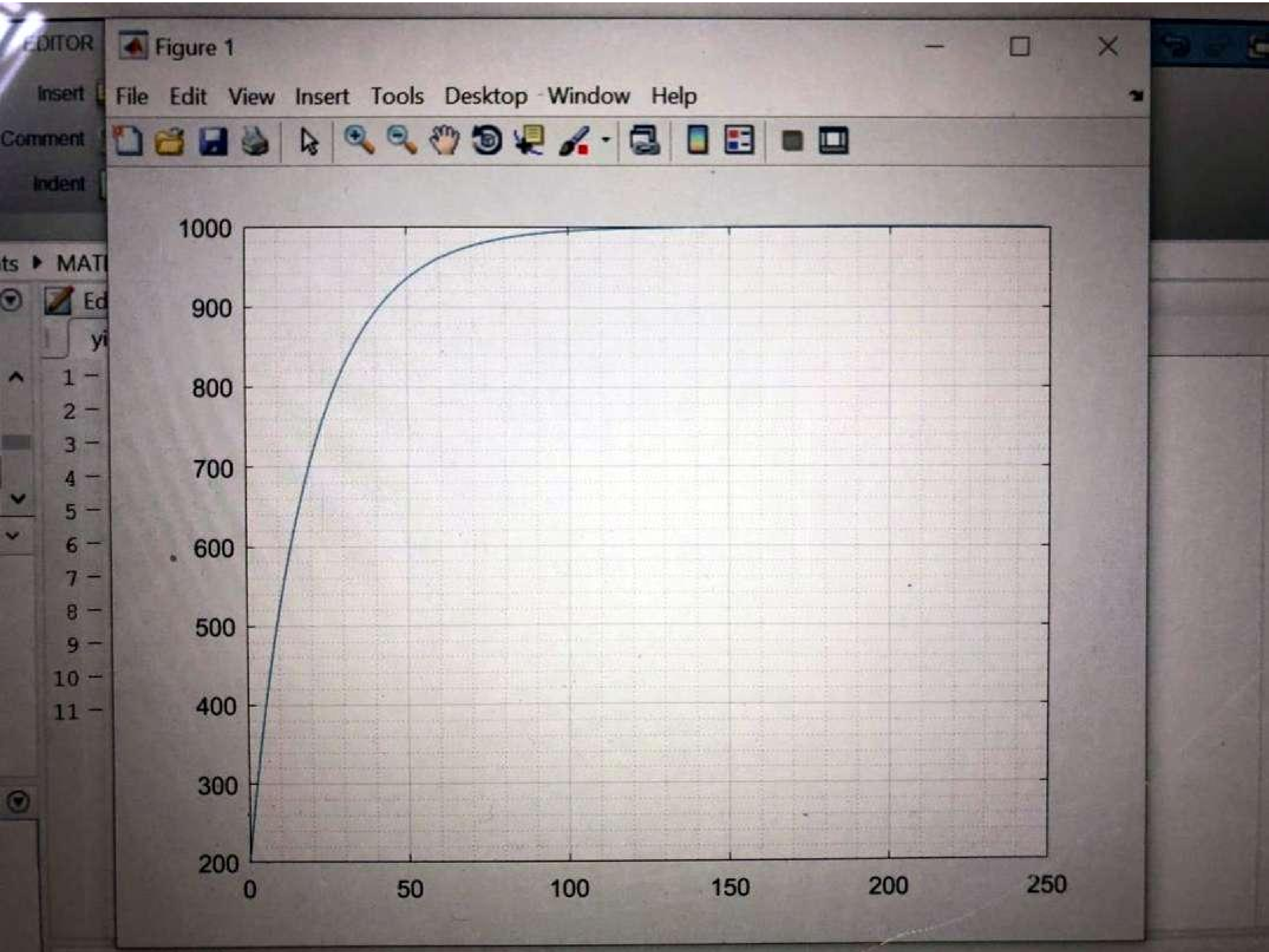
② 2.5 minutes = 150 seconds.

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

$$= 6 \times 24.9 = 149.4$$

$$\therefore 149.4 \div 60$$

$$= 2:49 = 2 \text{ mins } 49 \text{ seconds}$$



```
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
```

script ln 11 Col 11