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DEPT.: Mechanical Engineering

Initial temp (IT) = 10°C

Second temp (ST) = 20°C

Time from IT to ST = 3 min 30 sec

Actual Temp (AT) = 25°C

2 Time ST = 7)

So Temp (CT) = 24.9°C

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

and it takes 5 min to cover 10°C

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

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

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

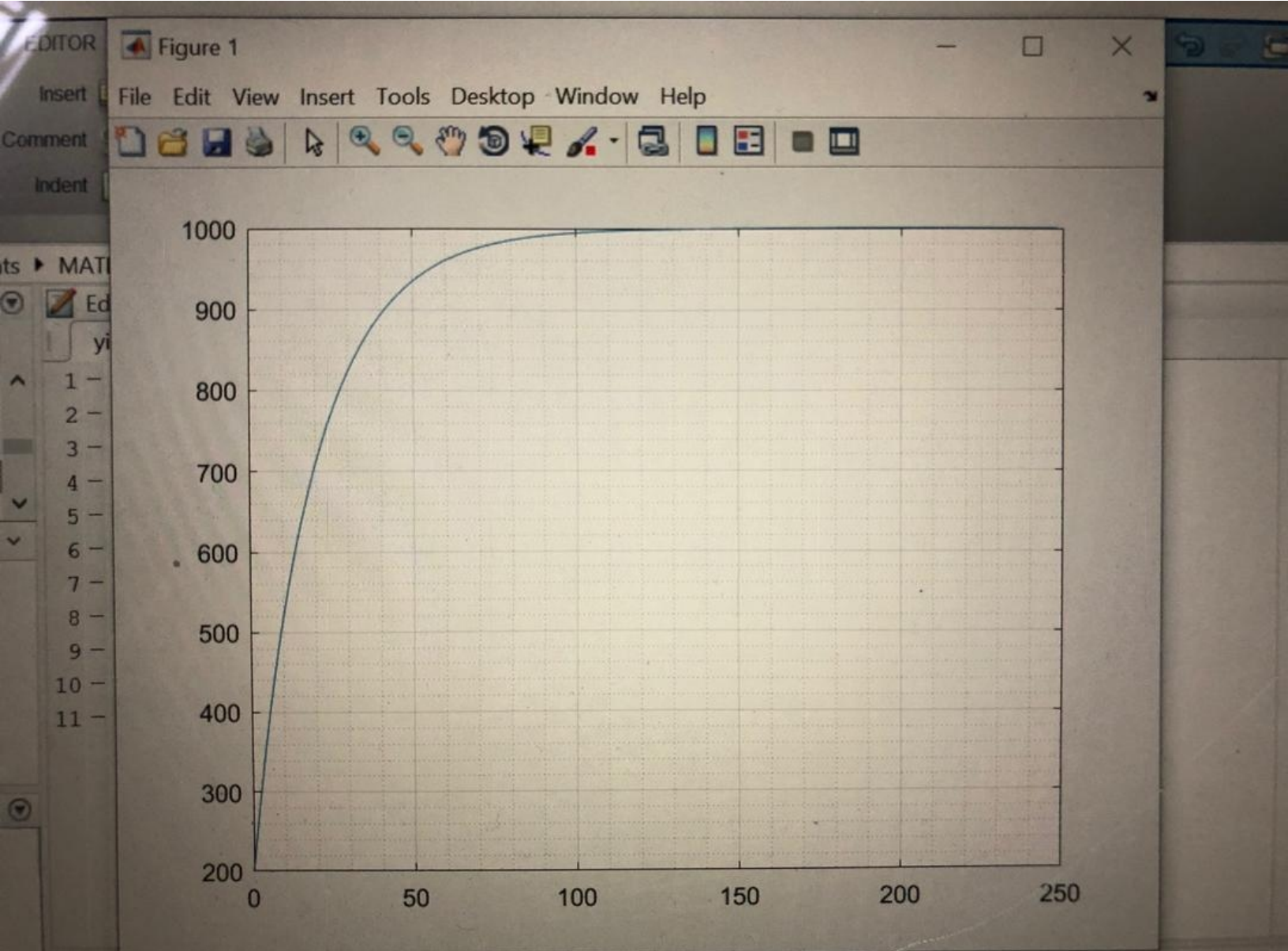
$24.9^{\circ}\text{C} = ?$

$$= \frac{2.5 \times 24.9}{2.5} \quad \left\{ \begin{array}{l} 2.5 \text{ min} = 150 \text{ sec} \end{array} \right.$$

$$= \frac{15 \times 24.9}{2.5} = 6 \times 24.9 = 149.4$$

$$= 149.4 \div 60$$

$$= 2.49 = 2 \text{ min } 49 \text{ sec}$$



```
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