

OLUOSUN ALAMIEEN TOMIWA

19/ENG02/081

COMPUTER ENGINEERING

ENG 282

Question 1

T_1 of thermometer = 10°C (IT)

T_2 of thermometer = 20°C (ST)

Time taken from IT to ST = 5 min = 300

Actual temp (AT) = 25°C

temp (CT) = 24.9°C 2 Time (2T) = 7.

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

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

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

~~250~~ $25^\circ\text{C} = 2.5$ min

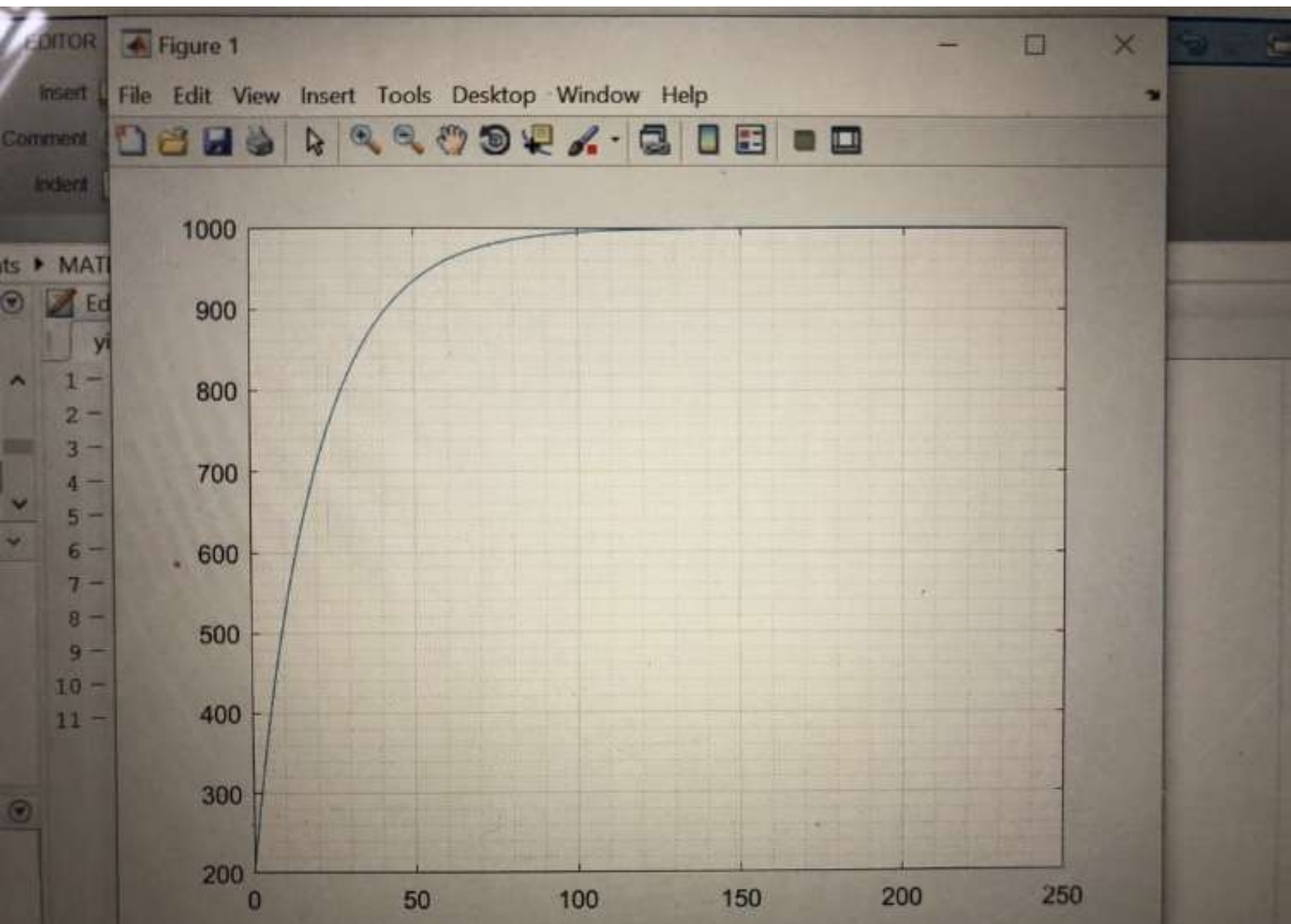
$\therefore 24.9^\circ\text{C} = ?$

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

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

$$\therefore 149.4 / 50$$

$$22.49 = 2 \text{ min } 49 \text{ sec}$$



```
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
80
88
90
92
94
96
98
100
102
```