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Department: Mechatronics

Course Code: ENG 282

Question 1

T_1 of Thermometer = 10°C

T_2 of Thermometer = 20°C

Time taken = 5 minutes = 300 s

$$\Delta T = 20 - 10 = 10^\circ\text{C}$$

$$\text{Find } T = 24.9^\circ\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$$

10°C to 300 secs

14.9°C to ∞

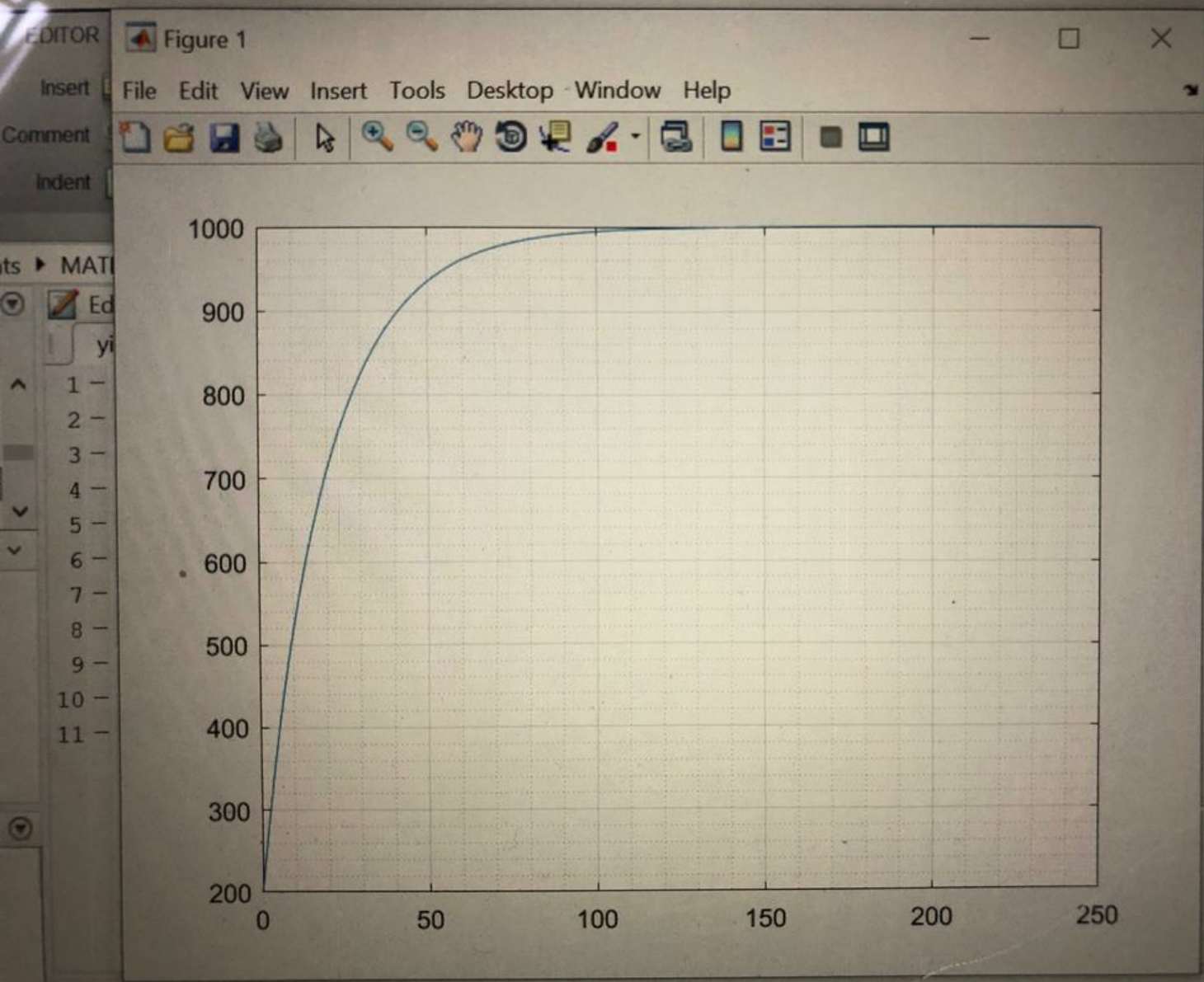
1000 to 300×14.9

1000 = 4470

1000 = 447

$\therefore \infty = 447$ second

$\infty = 7$ minutes 27 seconds!



```

MATLAB
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

Command Window
86
88
90
92
94
96
98
100
102
fx

script Ln 11 Col 11
```