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Civil-Engineering
18/ENG03/01C

ENG 282

Question 1

$$T_0 = 10^\circ\text{C}$$

$$T_c = 20^\circ\text{C}$$

$$\text{Time taken} = 5 \text{mins} \Rightarrow 300 \text{secs}$$

$$\text{10\% 1st} \quad 8. \quad \Delta T = 20 - 10 = 10^\circ\text{C}$$

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

$$10^\circ\text{C to } 300 \text{secs}$$

$$14.9^\circ\text{C to } X$$

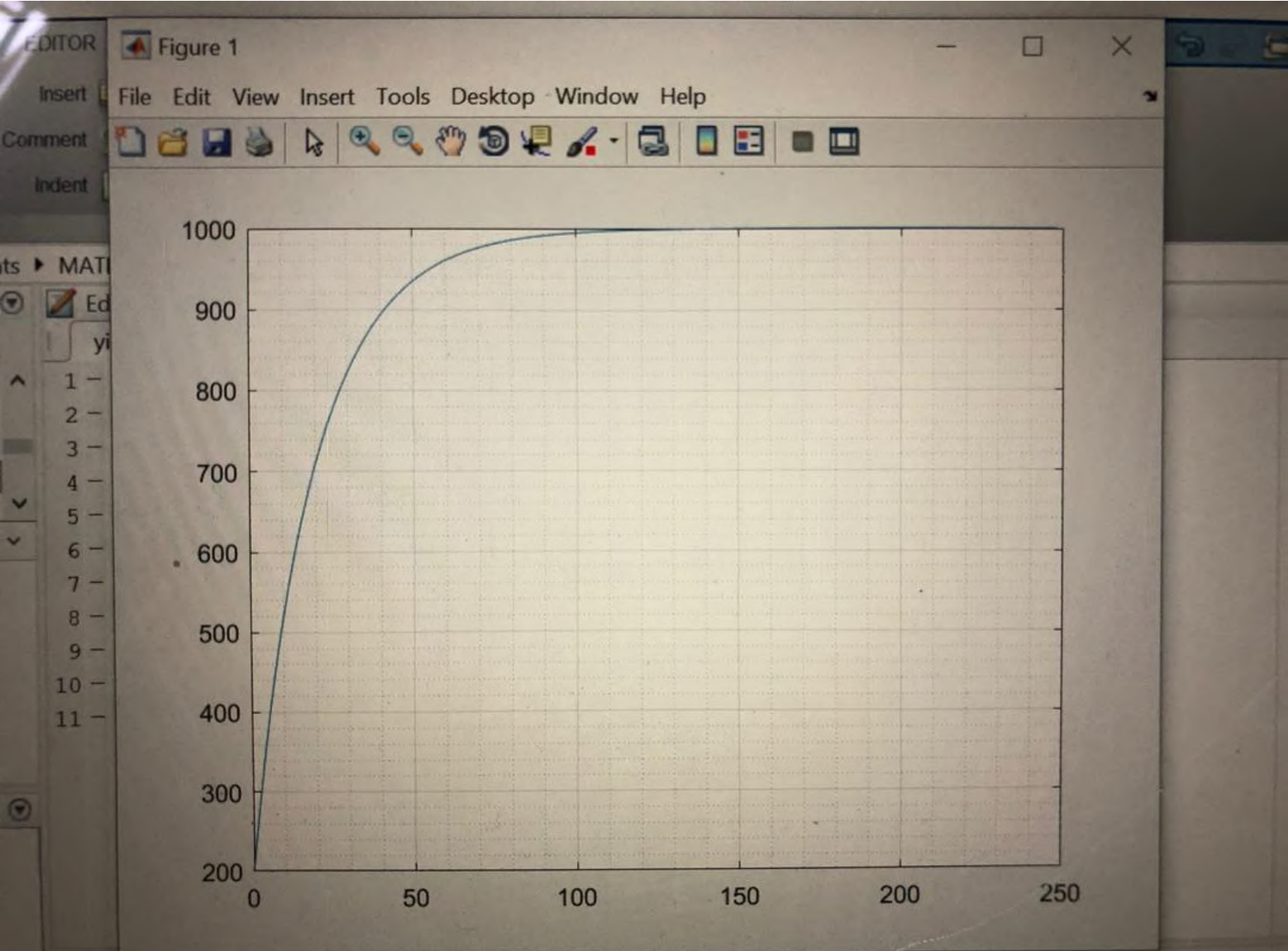
$$10\% \text{ to } 300 \times 14.9$$

$$10\% = 4470$$

$$10\% = 447$$

$$X = 447 \text{ Second}$$

$$X = 7 \text{ minutes } 27 \text{ seconds}$$



```
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
fx 102