

27-04-20

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(1)

$$T_1 = 10^\circ\text{C}$$

$$T_2 = 20^\circ\text{C}$$

$$\text{Time taken} = 5 \text{ minutes} = 300 \text{ secs}$$

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

$$\text{Find } T = 24.9^\circ\text{C}$$

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

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

$$14.9^\circ\text{C} \rightarrow x$$

$$10x \rightarrow 300 \times 14.9$$

$$\frac{10x}{10} = \frac{4470}{10}$$

$$x = 447 \text{ secs}$$

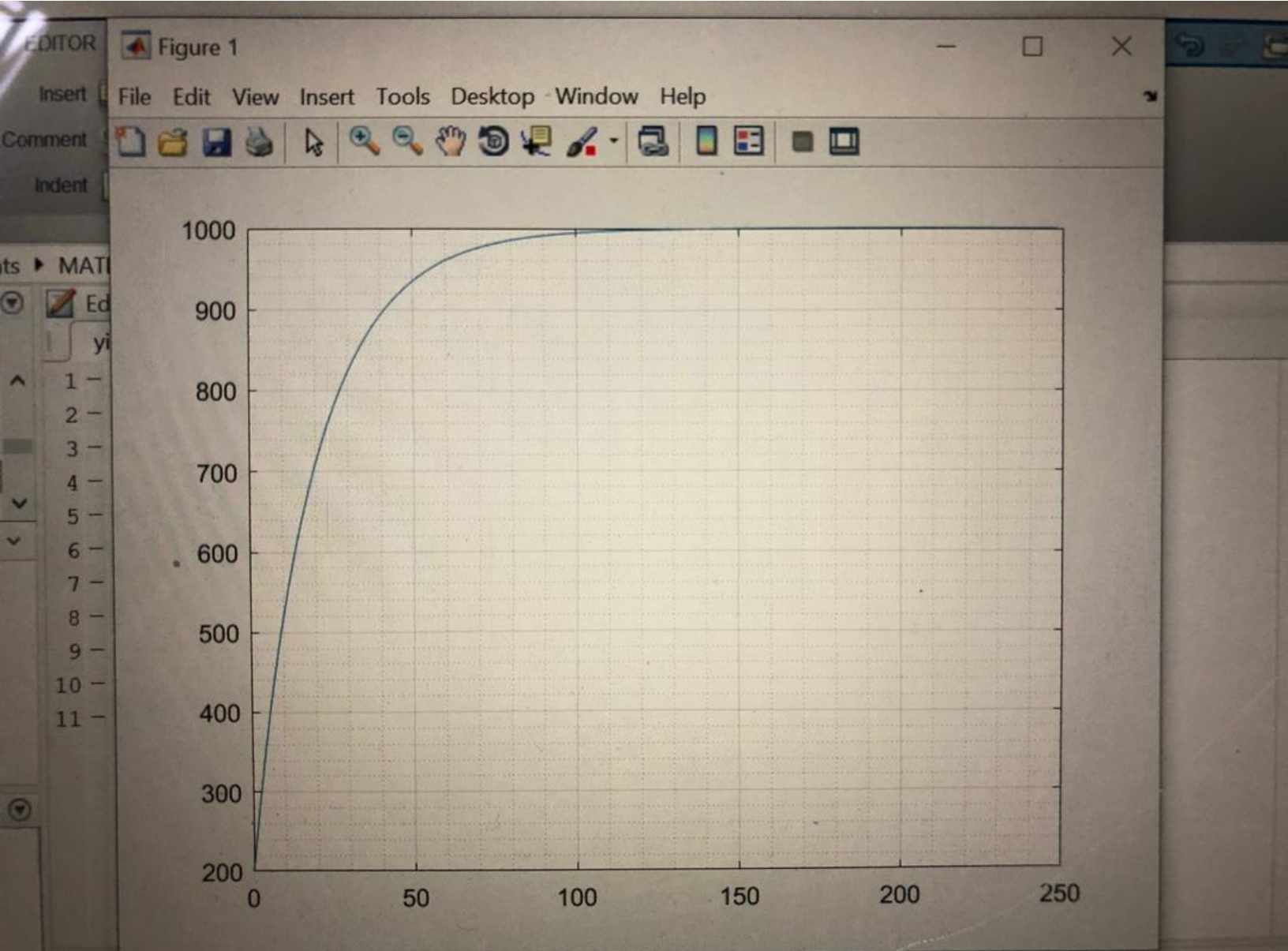
$$x = 447 \text{ secs}$$

$$x = 7 \text{ minutes } 27 \text{ seconds.}$$

```
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
fx 102



t = 0..20

$$T(t) = 2t + 10$$

T(t) =

10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
...

