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18/ENG06/002

Mechanical

ENG 282

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

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

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

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

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

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

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

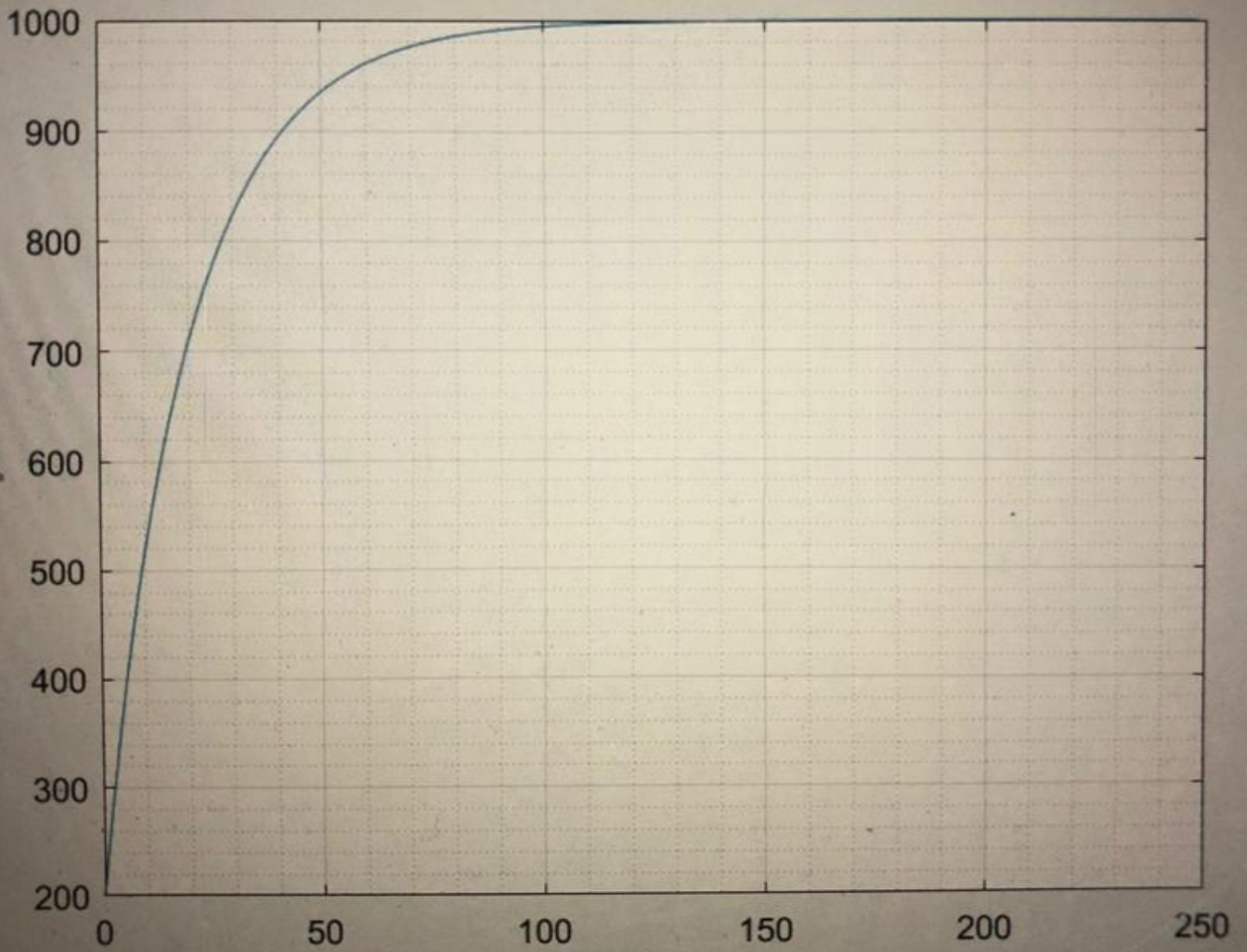
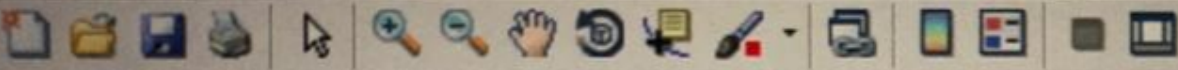
$$\frac{10x}{10} = \frac{4470}{10}$$

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

$$x = 7 \text{ mins } 27 \text{ seconds}$$

Figure 1

File Edit View Insert Tools Desktop Window Help




```
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
```