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$T = T_{\text{object}}$

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

At 0 mins

So actual = 0°C

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

At 5 mins

So actual = 10°C

$T_3 = 24.9^\circ\text{C}$

At x mins

Actual = 14.9°C

10°C to 300secs

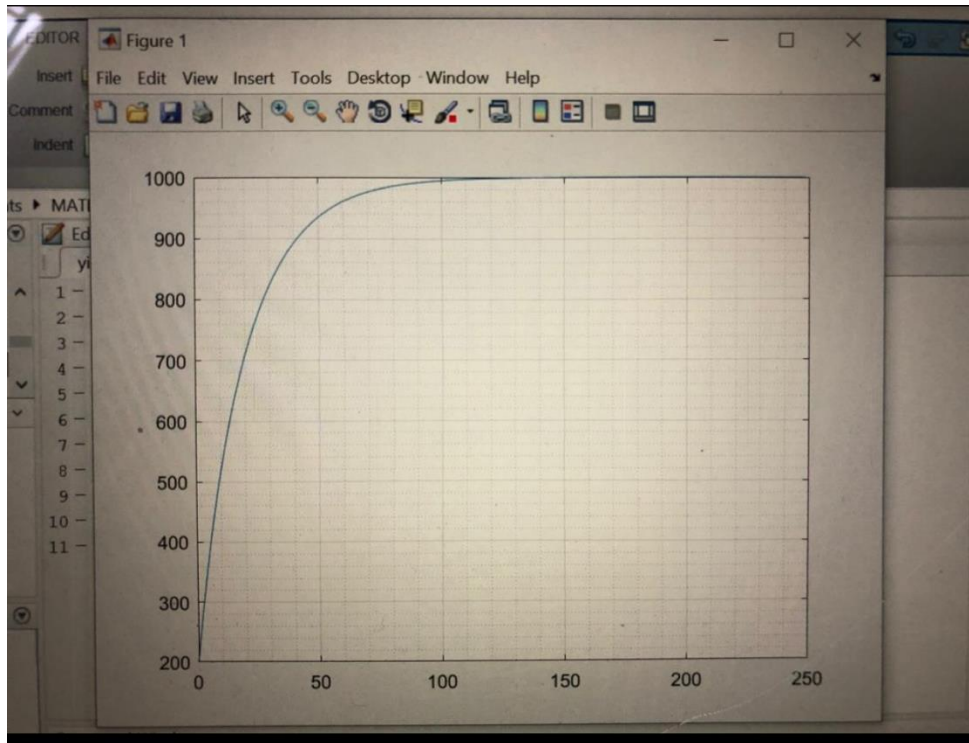
14.9°C to x

$$x = \frac{14.9 \times 300}{10}$$

10

$$= 447 \text{ seconds}$$

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



```
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
```

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

script In 11 Col 11