

TAYO AJIBOLA EMMANUEL

19/ENGO1/024

CHEMICAL ENGR

Question 1

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

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

$$t_1 = 5 \text{ mins} = 300 \text{ secs}$$

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

$$T_{\text{final}} = 24.9^\circ\text{C}$$

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

$$10^\circ\text{C} \longrightarrow 300$$

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

$$10^\circ\text{C} = 4470$$

$$x = 44.7 \text{ secs}$$

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

```
imaquiz2.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
102
```

script

Ln 11 Col 11