

Ipeany 1-061 Ipeany,
18/ENGD6/028
Mechanical Eng

ENG 282
Question 1

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

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

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

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

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

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

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

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

$$10x = 4470$$

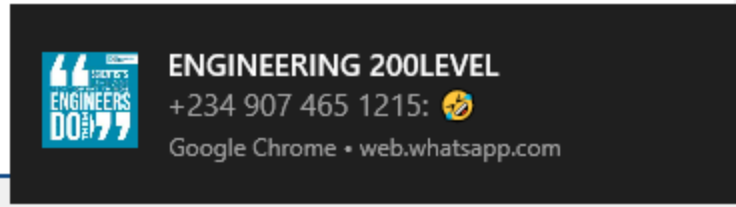
$$x = 447$$

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

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

```
Editor - C:\Users\lfeanyi lfeanyi-obi\Downloads\file.m
Untitled3.m x file.m x +
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - format short g
6 - mdata=xlread('onlinequizdata','fluiddata')
7 - x=mdata(1:2:250,1)
8 - y=mdata(1:2:250,2)
9 - plot(x,y)
10 - grid on
11 - grid minor
```

```
Command Window
999.99
999.99
1000
1000
1000
1000
1000
fx >>
```



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