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18/ENG 06/D17  
Mechanical

ENG 282

Question 1

$T_1$  of thermometer =  $10^\circ\text{C}$   
 $T_2$  of thermometer =  $20^\circ\text{C}$   
Time taken = 5 mins

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

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

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

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

$$10x = 300 \times 14.9$$

$$10x = 4470$$

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

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

```
Untitled3.m x file.m x +
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - format short g
6 - mdata=xlsread('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 >> |

