

Question 1

T_i of thermometer = 10°C

T_r of thermometer = 20°C

Time taken is 5 minutes = 300 sec

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

To find $T = 24.9^\circ\text{C}$

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

10° to 300 sec

14.9°C to x

$10x = 300 \times 14.9$

$$10x = 4470$$

$$x = 447$$

$x = 447$ seconds

$x = 7$ minutes 27 seconds.

```
commandwindow
clear
clc
close all
format short g
mdata = xlsread('onlinequizdata', 'fluidata')
x=mdata (1:2:250,1)
y=mdata (1:2:250,2)
plot (x,y)
grid on
grid minor.
```

Command Window

>> 86

Figure 1

File Edit View Insert Tools Desktop Window Help

