



yimaquiz2.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
```

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Q 1

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

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

Time taken = 5 minutes = 300 secs

18

$10^\circ\text{C}$  at 0 secs

$20^\circ\text{C}$  at 300 secs

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

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

$$= 14.9^\circ\text{C}$$

~~$10^\circ\text{C}$  at 300 secs~~

~~$14.9^\circ\text{C}$  at  $x$~~

$$10x + 0 = 300 \times 14.9$$

$$\frac{10x}{10} = \frac{4470}{10}$$

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

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