



```

yimaq22.m
clear
clc
close all
format short g
mdata = xlsread('onlinequizdata', 'fluiddata')
x = mdata(1:12:250, 1)
y = mdata(1:12:250, 2)
plot(x, y)
grid on
grid minor

```

Command Window

88
90
92
94
96
98
100
102

script Jan 11 Col 11

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 18160903/008
 Civil Eng
 FOG 282
 Q 1

T_1 of thermometer = 10°C
 T_2 of \checkmark = 20°C
 Time Taken = 5 minutes = 300 secs

$\Delta T = 20 - 10 = 10^\circ\text{C}$
 find $T = 24.9^\circ\text{C}$ $\Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$

10°C to 300 secs
 14.9°C to x
 $10x = 300 \times 14.9$
 $10x = 4470$
~~1000~~ $x = 447$
 $x = 447$ seconds
 $x = 7$ minutes 27 seconds.