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Petroleum Engineering

①  $T_1 = 10^\circ\text{C}$       $T_2 = 20^\circ\text{C}$

It takes 5 mins to get from  $T_1$  to  $T_2$

i.e.  $T_2 - T_1 = 10^\circ\text{C}$  at 5 mins

to go from  $20^\circ\text{C}$  to  $24.9^\circ\text{C}$

time will be ; 5 mins =  $10^\circ\text{C}$

$$x \text{ mins} = 4.9^\circ\text{C}$$

(because temperature increases from  $20^\circ\text{C}$  to  $24.9^\circ\text{C}$  i.e. by  $4.9^\circ\text{C}$ )

$$5 \text{ mins} = 10^\circ\text{C}$$

$$x \text{ mins} = 4.9^\circ\text{C}$$

$$5 \times 4.9 = 10x$$

$$24.5 = 10x$$

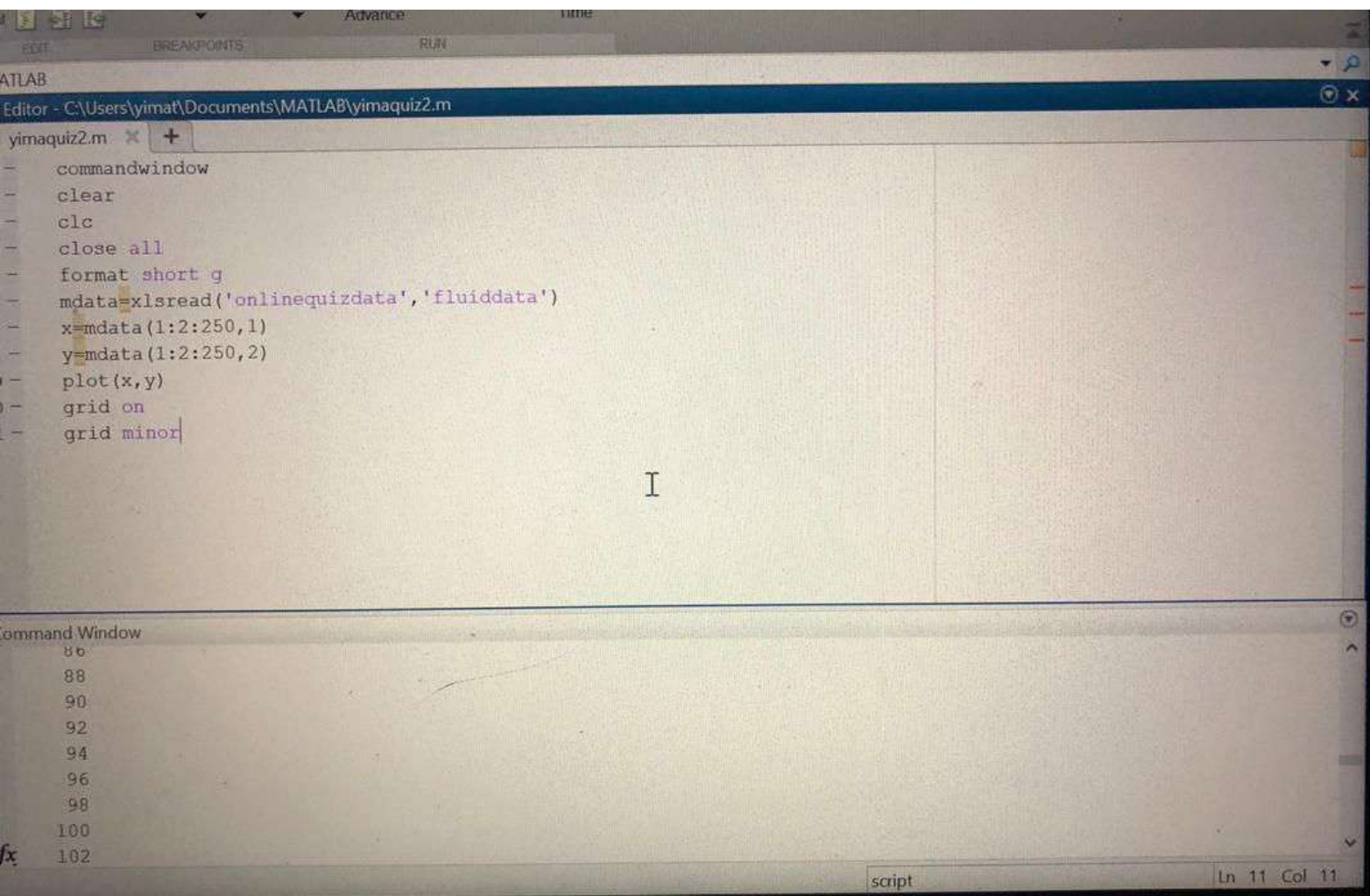
$$x = \frac{24.5}{10}$$

$$x = 2.45 \text{ mins}$$

Total time for temperature to move from  $10^\circ\text{C}$  to  $24.9^\circ\text{C}$  will be

given as;

$$5 + 2.45 = 7.45 \text{ mins}$$



MATLAB

Editor - C:\Users\yimat\Documents\MATLAB\yimaquiz2.m

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

script

Ln 11 Col 11

