LAW-ADUE EMMANUEL
19/ENG05/069
MATHEMATICS QUIZ [ENG282] ***
MECHATRONICS

QUESTION 1

T_1 of thermometer = 10°c
T_2 of thermometer = 20°c
Time (t) = 5 minutes = 300 secs

$\Delta T = 20 - 10 = 10°c$
Time when $T = 24.9°c$; $\Delta T = 24.9 - 10 = 14.9°c$

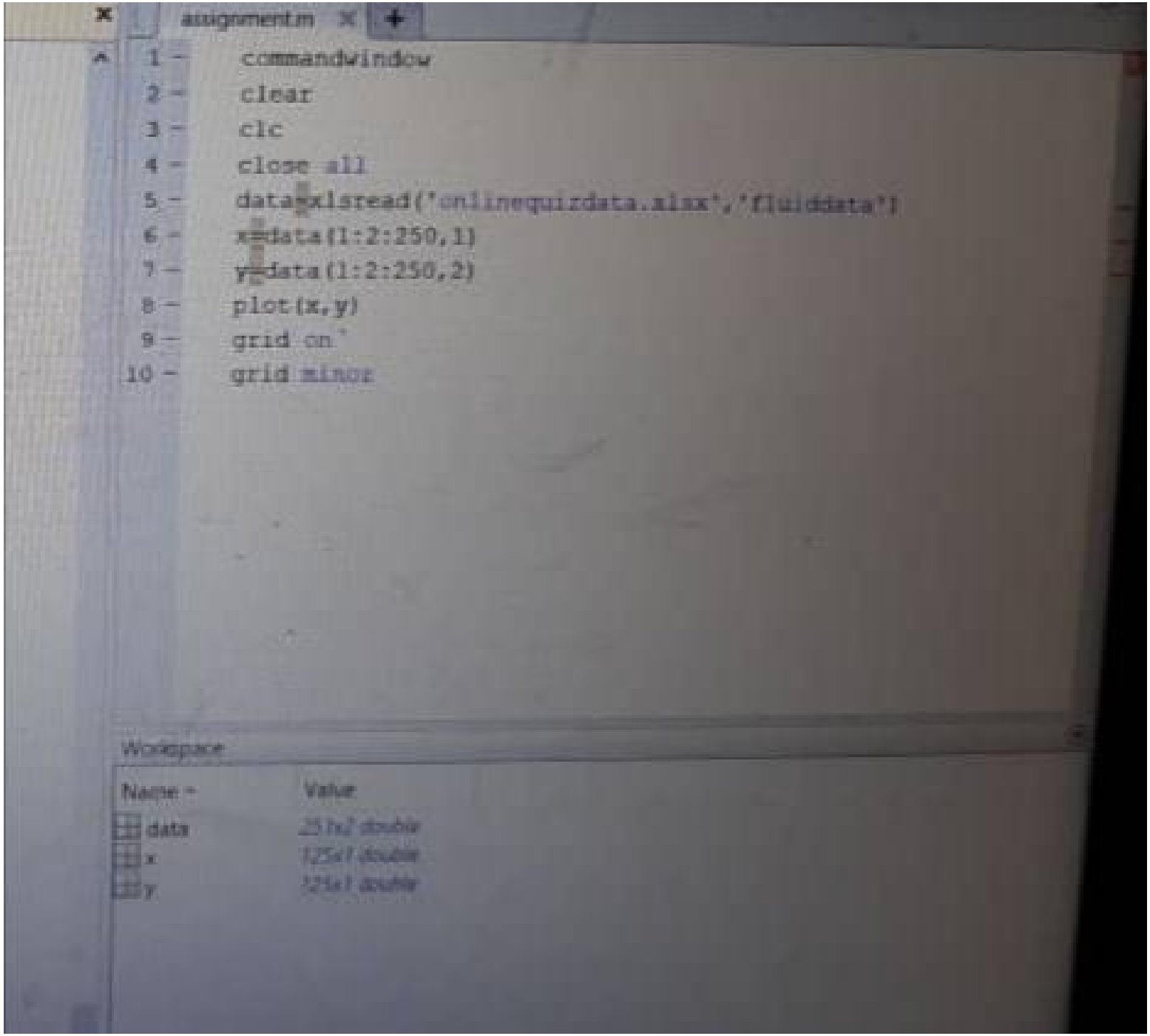
→ $10°c \equiv 300$ secs
$14.9°c \equiv x$

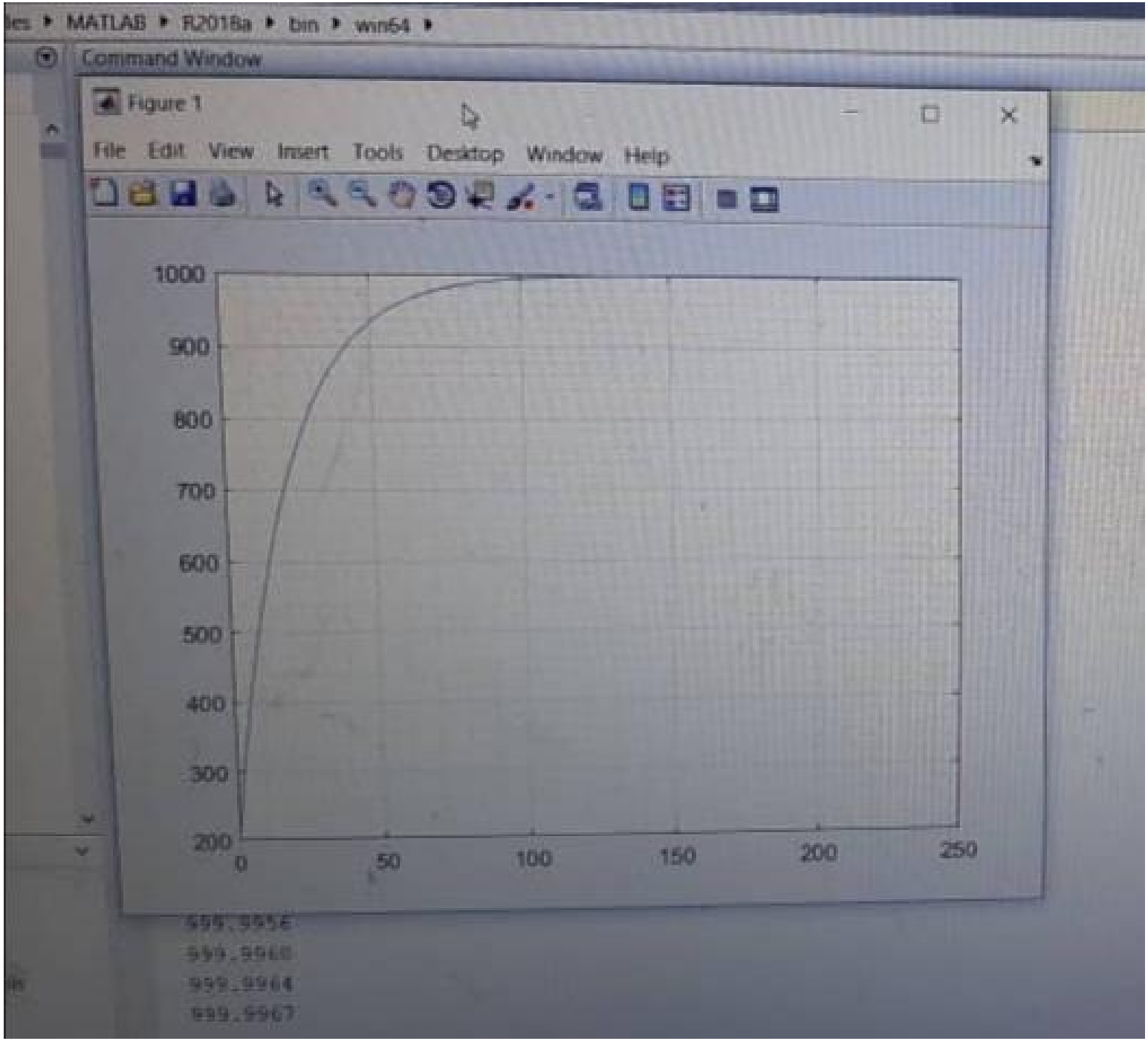
After cross multiplication, $10x = 4470$

$$x = \frac{4470}{10} = 447$$

$x = 447$ seconds

∴ The time taken to reach
24.9°c = 447 seconds
= 7 minutes 27 seconds ///


assignment.m
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - data=xlsread('onlinequizdata.xlsx','fluiddata')
6 - x=data(1:2:250,1)
7 - y=data(1:2:250,2)
8 - plot(x,y)
9 - grid on
10 - grid minor
Workspace
Name -
Value
data
x
y


MATLAB ▸ R2018a ▸ bin ▸ win64 ▸
Command Window
Figure 1
File Edit View Insert Tools Desktop Window Help
1000
900
800
700
600
500
400
300
200
0
50
100
150
200
250