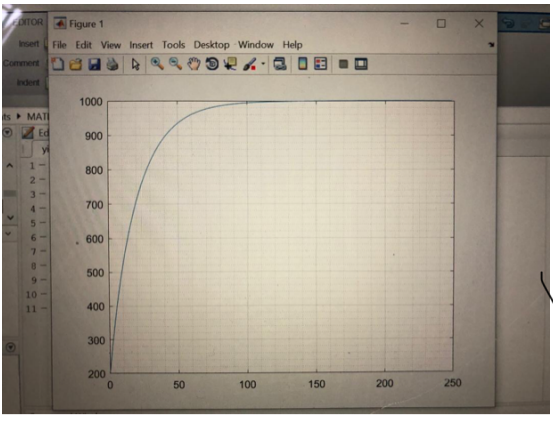
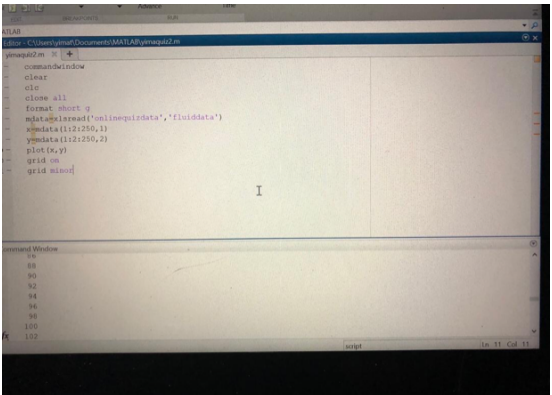


Kareem Kalogaiye
18/ENG03/035
Civil Eng.

Question 1

T_1 of Thermometer $= 10°C$
T_2 of Thermometer $= 20°C$
Time taken $= 5$ minutes $= 300$ secs

$\Delta T = 20 - 10 = 10°C$
Find $T = 24.9°C$. $\Delta T_c = 24.9 - 10 = 14.9°C$

$10°C$ to 300 secs
$14.9°C$ to x
$10°C$ to 300×14.9
$10°C = 4470$
$\frac{10x}{10} = \frac{4470}{10}$
$x = 447$ seconds
$x = 7$ minutes 27 seconds