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DEPT: MECH ENGR

1)

T_1 of thermometer = 10°C

T_2 of thermometer = 20°C

Time taken = 5 min = 300 sec

$$\Delta T = 20 - 10 = 10$$

$$T_{\text{ind}} = 24.9^\circ\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$$

10°C to 300 sec

14.9°C to x

$$10x = 300 \times 14.9$$

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

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

ATLAB

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

