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Petroleum Engineering

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$T_i$  of thermometer =  $10^\circ\text{C}$

$T_a$  of thermometer =  $20^\circ\text{C}$

Time taken = 5 minutes ~~2~~  $5 \times 60 = 300 \text{ sec}$

$$\Delta T = 20 - 10 = 10^\circ\text{C}$$

$$\text{Find } \bar{T} = 24.9^\circ\text{C}$$

$$\Delta T_C = 24.9 - 10 = 14.9^\circ\text{C}$$

$$10^\circ\text{C} = 300 \text{ sec}$$

$$14.9^\circ\text{C} = x$$

$$\frac{10x}{10} = \frac{300 \times 14.9}{10}$$

$x =$

$$x = 447$$

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

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  
fx 102

script Ln 11 Col 11

