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Matric No: 18/ENG06/1018

Initial temp = 10°C at 0°C

5min = 300Sec

actual temp = 25°C

? min = 24.9

~~at 5min = 20 + 2.5 = 22.5~~

~~x~~

$\Delta t = 20 - 10 = 10°C$

Find $\bar{t} = 24.9°C$

$\Delta T_c = 24.9 - 10 = 14.9°C$

10°C to 300Sec

14.9°C − x

10x = 4470

~~10x~~ = 447

x = 4475

x = 7mins 275/11

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(2a) command window - 86, 88, 90, 92, 94, 96, 98, 100, 102

```
clear
clc
Closeall
format Short g
mdata = xLsread ('onlinequiz\data\fluid data')
x = mdata (1:2:250,1)
y = m data (1:2:250,2)
plot (x,y)
grid on
grid minor
```

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$\ln(T - 10) = kt + c$

$T = e^{kt} T_0 + 10$

$20 = 15e^{5k} + 10$

$20 = 15e^{5k} + 10$ ---- 5 mins

$k = 0.081$

$T = 15e^{0.08t} + 10$