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MECHANICAL ENGINEERING
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1) T_1 of thermometer = 10°C, T_2 of thermometer = 20°C
Time taken t = 5min = 300s, Actual temp CT = 24.9°C
$\Delta T = T_2 - T_1 = 20 - 10$
$\Delta T = 10°C$
∴ It takes 5 mins for the temperature to rise by 10°C
5°C = $\frac{1}{2}$ of 5mins
∴ 5°C = 2.5mins to move from 20°C → 25°C
∴ 25°C ⇒ 2.5m
24.9°C ⇒ x
$x_{min} = \frac{2.5 \times 24.9}{25}$
$x = \frac{150 \times 24.9}{25}$
x = 149.4 seconds
x = 2mins 29 seconds

2.) Command Window.

```
clear
clc
close all
format shortg
mdata = xlsread('online quiz data', 'fluid data')
x = mdata(1:2:250, 1)
y = mdata(1:2:250, 2)
plot(x, y)
grid on
grid minor
```