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DEPT: PETROLEUM ENGR.

COURSE: ENGR 282.

$$T_1 = 20^\circ\text{C}, \quad T_2 = 20^\circ\text{C}.$$

It takes 5 mins to get from  $T_1$  to  $T_2$ .

$$\text{i.e. } T_2 - T_1 = 10^\circ\text{C at } 5 \text{ mins.}$$

to go from  $20^\circ\text{C}$  to  $24.9^\circ\text{C}$ .

Hence, time will be;  $5 \text{ mins} = 10^\circ\text{C}$ .

$$n \text{ mins} = 4.9^\circ\text{C}.$$

(because temperature increases from  $20^\circ\text{C}$  to  $24.9^\circ\text{C}$  i.e. by  $4.9^\circ\text{C}$ ).

$$5 \text{ mins} = 10^\circ\text{C}$$

$$n \text{ mins} = 4.9^\circ\text{C}.$$

Cross multiplying.

$$5 \times 4.9 = 10n$$

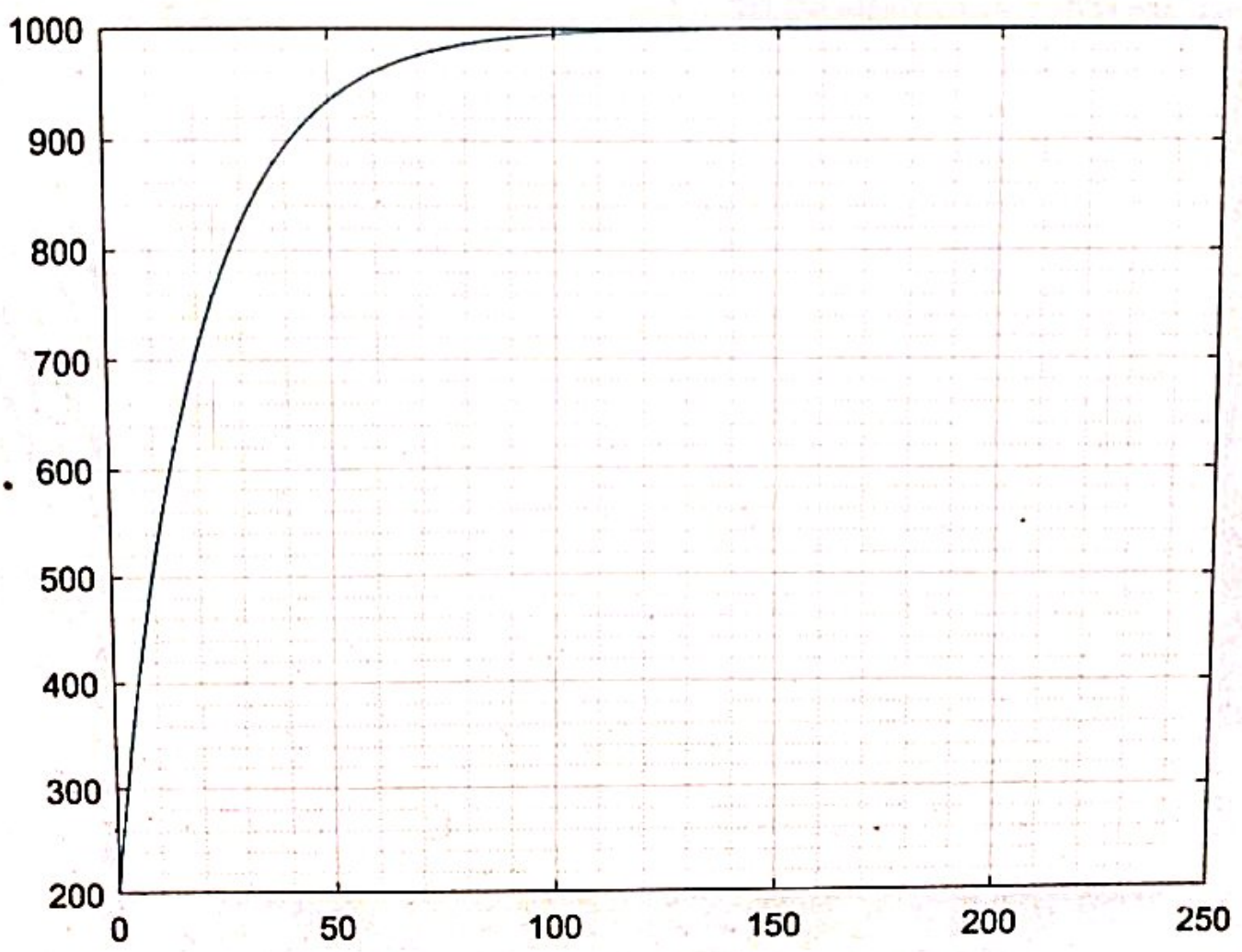
$$24.5 = 10n$$

$$n = \frac{24.5}{10}$$

$$n = 2.45^\circ\text{C}.$$

Total time for temperature from  $10^\circ\text{C}$  to  $24.9^\circ\text{C}$  will be;

$$5 + 2.45 = 7.45 \text{ mins.}$$



```
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
```

print

Ln 11 Col 11