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$$\textcircled{1} T_0 = 10^\circ\text{C}, T_{(300)} = 20^\circ\text{C}$$

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

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

$$\therefore 10 = 300 \text{ sec}$$

$$14.9 = x$$

$$10x = 300 \times 14.9$$

$$10x = 4470$$

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

The time reached for the thermometer to practically reach system temperature is 447 sec,

$\textcircled{2}$ Command Window

clc

clear all

```
mdata = xlsread('onlinequizdata book1.xlsx', 'sheet1')
```

```
x = mdata(1:2:250, 1)
```

```
y = mdata(1:2:250, 2)
```

```
plot(x, y)
```

```
grid on
```

```
grid minor.
```