18/ENG04/008

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$T_0 = 10°C$
$T = 20°C$ after 5 minutes
Calculate time to reach 24.9°C.
20°C $\Delta T = (T - T_0) = 10°C$.
$10°C = 5$ minutes
While the actual temp.
$T_a = 24.9°C$
$\Delta T = T_a - T = 14.9°C$
$\therefore 10°C = 5$
$14.9°C = x$
$10x = 74.5$
$x = \frac{74.5}{10}$

$x = 7.45$ minutes.
∴ Time to reach 24.9°C $= 7.45 \times 60$
$= 447$ seconds
$= 7$ min 27 sec
$= 7$ mins. 27 secs
$= 7$ minutes; 27 seconds

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Breakpoints BREAKPOINTS

Run Run and Advance Run Section Advance Run and Time RUN

Files ▸ MATLAB ▸ R2017a ▸ bin ▸

Editor - C:\Users\Olatilewa Aiyedun\Documents\200 LVL TEXTS\Matlab_R2017a\m

+15 mathonlineclass.m matlabexcelgraph2.m mathsonlineclasstwo.m quizmatlab.m

```
1 -  commandwindow
2 -  clear
3 -  clc
4 -  mdata1=xlsread('onlinequizdata.xlsx','fluiddata')
5 -  xdata=mdata1(1:2:250,1)
6 -  ydata=mdata1(1:2:250,2)
7 -  plot(xdata,ydata)
8 -  grid on
9 -  grid minor
10
```

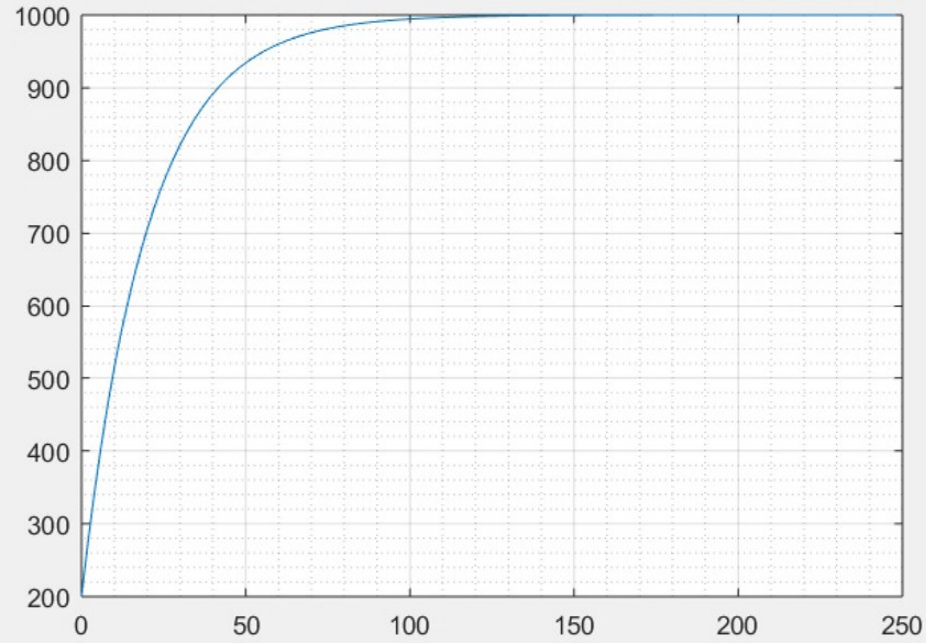
Command Window

```
999.9910
999.9919
999.9927
999.9934
999.9940
999.9946
999.9951
999.9956
999.9960
999.9964
999.9967
```

fx >>

Figure 1

File Edit View Insert Tools Desktop Window Help



script