



```
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - format short g
6 - syms t
7 - y=(50/0.05)+((50/1.0025)*sin(t))+((50*0.05/1.0025)*cos(t))-(502.49*exp(-0.05*t))
8 - ym=1000-(800*exp(-0.05*t))
9 - T=0:1:500
10 - T1=T(2:2:500)
11 - T2=T(1:2:500)
12 - Y=subs(y,T1)
13 - Ym=subs(ym,T2)
14 - mdata=['t (minutes)', 'V (litres)'; Y, Ym]
15 - plot(T1, Y, T2, Ym)
16 - grid on
17 - grid minor
```