

EDITOR

```
function DQ=ODEASS (t,Q)
%DQ=[Q1,Q2,Q3];
DQ(1,1)=(-(15/500)*Q(1))+(5/1000)*Q(2)+1;
DQ(2,1)=(15/500)*Q(1)-(18/1000)*Q(2)+(3/400)*Q(3);
DQ(3,1)=(13/1000)*Q(2)-(13/400)*Q(3);
%Steady state for Q1=50m3,Q2=100m3,Q3=40m3
COMMAND WINDOW
```

```
>> [t,Q]=ode45('ODEASS',[0 1200],[0;0;0]);[t Q],plot(t,Q(:,1),'-+',t,Q(:,2),'-x',t,Q(:,3),'-o'),
grid on,xlabel('t(min)'),ylabel('Variable'),axis tight,legend('Q1','Q2','Q3')
```