```
1 function [dQdt] = geles(t,Q)
2
3 dQdt(1)=-((15/500)*Q(1))+ ((5/1000)*Q(2))+1;
4 dQdt(2)=((15/500)*Q(1))-((18/1000)*Q(2))+ ((3/400)*Q(3));
5 dQdt(3)=((13/1000)*Q(2))-((13/400)*Q(3));
6 dQdt=dQdt';
7 end
```

```
commandwindow
clearvars
clc
close all

span= [0:1:1200];
ini=[0 0 0];
[t,Q]= ode45(@geles,span,ini);

figure(1)
subplot(3,1,1)
plot(t,Q(:,1),'go-')
xlabel('Time(min)')
ylabel('Volume 1(litres)')
legend('Tank 1', 'Location', 'South')
grid on
axis tight
title('Figure 1:Dynamic Responses of the Tanks')

subplot(3,1,2)
plot(t,Q(:,2),'b*--')
xlabel('Time(min)')
ylabel('Volume 2(litres)')
legend('Tank 2',  'Location', 'South')
grid on
axis tight

subplot(3,1,3)
plot(t,Q(:,3),'r+--')
xlabel('Time(min)')
ylabel('Volume 3(litres)')
legend('Tank 3', 'Location', 'South' )
grid on
axis tight
```

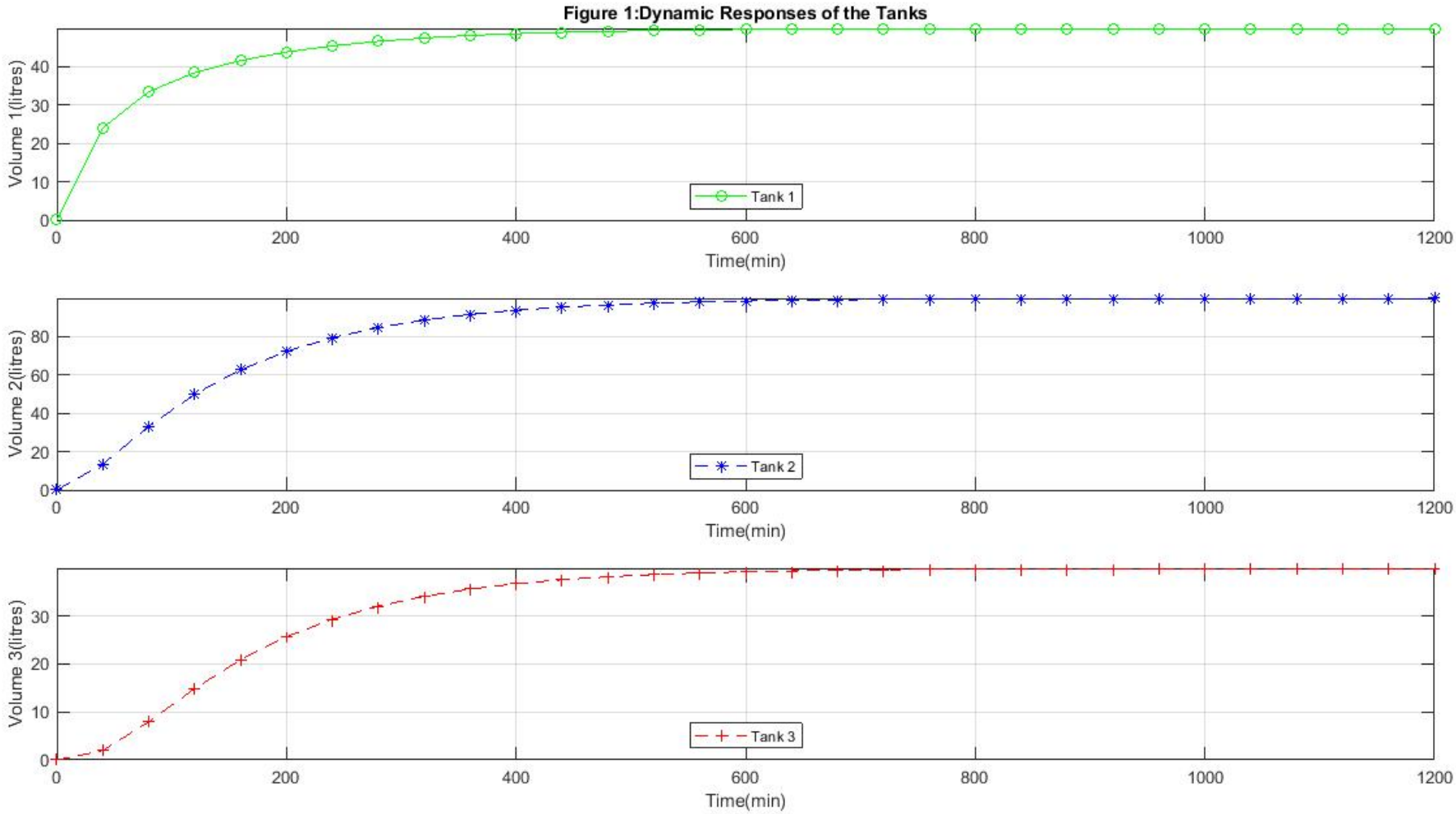
Figure 1:Dynamic Responses of the Tanks
Volume 1(litres)
Time(min)
Tank 1
Volume 2(litres)
Time(min)
Tank 2
Volume 3(litres)
Time(min)
Tank 3