

OGAH JOSHUA IMHOAGENE
17/ENG02/063
COMPUTER ENGINEERING

```
commandwindow
clear
clc
syms Q1 Q2 Q3 t
y1=diff(Q1,t);
y2=diff(Q2,t);
y3=diff(Q3,t);
y1= -15/500*Q1+5/1000*Q2+1;
y2= 15/500*Q1-18/1000*Q2+3/400*Q3;
y3= 13/1000*Q2-13/400*Q3;
t=0:200:1200;
subplot(2,2,1)
plot(t,y1)
title('Tank 1')
xlabel('Time (min) '), ylabel('Volume (Litre) ')

subplot(2,2,2)
plot(t,y2)
title('Tank 2')
xlabel('Time (min) '), ylabel('Volume (Litre) ')

subplot(2,2,3)
plot(t,y3)
title('Tank 3')
xlabel('Time (min) '), ylabel('Volume (Litre) ')

```