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**MATRIC NUMBER:17/ENG06/106**

**DEPARTMENT: MECHANICAL ENGINEERING**

**COURSE TITLE: ENGINEERING MATHEMATICS**

**COURSE CODE: ENG382**

 **ASSINGNMENT II**

SOLUTION

Commandwindow

Clear

Clc

Close all

[T,q]= ode45(‘ SHARON’,[0:40:1200] ,[0 0 0]

Figure(1)

Subplot (3,1,1)

Plot( T,q(:,1),’o-g)

Ylabel(‘volume(litre)’)

Xlabel (‘time(min)’)

Legend (‘Tank1’)

Grid on

Subplot(3,1,2)

Plot( T,q(:,2),’\*-b’)

Ylabel(‘volume(litre)’)

Xlabel (‘time(min)’)

Legend (‘Tank2’)

Grid on

Subplot(3,1,3)

Plot( T,q(:,2),’\*-r’)

Ylabel(‘volume(litre)’)

Xlabel (‘time(min)’)

Legend (‘Tank3’)

(GRAPHS)



