

~~18/01/2021~~

MAGUACIOMUNIA WIANNIA USTENOWY 1081

Enle: 382

FALCINTEERUMEN MATHEMATICS E.V

ASSIGNMENT

- FUNCTION CURS

function $dQ/dt = \text{lotanna fun}(t, Q)$

$$dQ/dt(c1) = (-0.05 * Q(c1)) + (0.005 * Q(c2)) + 1;$$

$$dQ/dt(c2) = (0.005 * Q(c1)) - (0.078 * y(c2)) + (0.075 * Q(c2));$$

$$dQ/dt(c3) = (0.073 * Q(c2)) - (0.0825 * Q(c3))$$

$$dQ/dt = dQ/dt;$$

end.

- Simulation file

- command window

clear all

clc

close all

$$[t, Q] = \text{ode45}(\text{lotanna fun}, [0.45:1200] \text{ 1000});$$

figure(c1)

- subplot(3,1)

plot(t, y(:,1), 'r')

x label('Time (min)')

y label('Volume (litre)')

legend('Tank 1')

grid on

grid minor

axis light

lofannamw

~~#t1c~~

- subplot (3,1,2)

plot (t, y (; 2), 'x-b')

x label ('Time (min)')

y label ('Volume (litre)')

legend ('Tank 2')

grid on

grid minor

axis tight

* subplot (3,1,3)

plot (t, y (; 1), 't-1')

x label ('Time (min)')

y label ('Volume (litre)')

legend ('Tank 3')

grid on

grid minor

axis tight

Figure 1

File Edit View Insert Tools Desktop Window Help

