Name; WEST ORIBIM

Course; ENG 281

Mat No ; 16/eng06/074

Mech eng

commandwindow

clear

clc

close all

syms t

a=vpa(pi)

q=0.25\*sin(25\*a\*t)

v=0.5\*cos(0.2\*a\*t)

i=diff(q)

tn=[0:0.0001:0.35]

i=diff(q)

in=subs(i,tn)

p=i\*v

pn=subs(p,tn)

figure(1)

plot(tn,pn,tn,in)

grid on

grid minor

axis tight

ylabel('Variable')

xlabel('Time(s)')

legend('Power(W)','Current(A)')