

NAME : SOKUNBI FARID

DEPT : CIVIL ENGINEERING

MATRIC NO : 16/ENG03/051

1.

commandwindow

clc

clear

close all

syms t

t = [0:0.0001:0.35];

Q = 0.25 * sin(25*3.142*t);

V = 0.5 * cos(0.2*3.142*t);

In = diff(Q);

I = subs(In,t);

Pn = I * V;

P = subs(Pn,t);

figure (1)

plot(t,I,t,P)

xlabel('time(s)')

ylabel('variable')

axis tight

grid on

grid minor

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