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DEPT; COMPUTER ENGINEERING

MATRIC NO; 16/ENG02/040

ASSIGNMENT 5

```
commandwindow
clear
clc
close all
syms t
Qt = 0.25*sin(25*pi*t);
Vt = 0.5*cos(0.25*pi*t);
tn = (0:0.00001:0.35);
I = diff(Qt);
P = Vt*I;
yn = subs(I,tn);
ynn = subs(P,tn);
figure(1)
plot(tn,yn)
grid on
grid minor
axis tight
xlabel('time(sec)')
ylabel('current(A)')
figure(2)
plot(tn,ynn)
grid on
grid minor
axis tight
xlabel('time(sec)')
```

```
ylabel('power(w)')
    grid on
    grid minor
    axis tight
    figure(3)
plot(tn,yn,tn,ynn)
    grid on
    grid minor
    axis tight
    xlabel('variable')
    ylabel('time(sec)')
legend('çurrent(l)', 'power(w)')
```