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16/ENG02/047

COMPUTER ENGINEERING

ENG 281

ASSIGNMENT V

COMMANDS WRITTEN

```
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('power (W) ', 'current (I)')
```

OUTPUTS IN COMMANDWINDOW



