

```
commandwindow
clear
clc
close all
syms t
Q=0.25*sin(25*3.142*t)
V=0.5*cos(0.2*3.142*t)
t=[0:0.0001:0.35]
I=diff(Q)
a=V*I
V=subs(V,t)
I=subs(I,t)
P=diff(a)
P=subs(P,t)

figure(1)
plot(t,I,t,P)
xlabel('time(t)')
ylabel('Variable')
legend P=power I=current
grid on
grid minor
```