

```

syms t
Qt=0.25*sin(25*pi*t)
tn=[0:0.0001:0.35]
s=subs(Qt,tn)
I=s./tn
figure (1)
plot(tn,I,'r')
xlabel('time(s)')
ylabel('variable')
axis tight
grid on
grid minor

Vt=0.5*cos(0.2*pi*t)
r=subs(Vt,tn)
P=I.*r
figure (2)
plot(tn,P,'b')
xlabel('time(s)')
ylabel('variable')
axis tight
grid on
grid minor

figure (3)
plot(tn,I,'r',tn,P,'b')
axis tight
xlabel('time(s)')
ylabel('variable')
axis tight
grid on
grid minor
legend('current(A)', 'power(w)')

```