IFEANYICHUKWU KOSISO C.

MECHANICAL ENGINEERING

16/ENG06/031

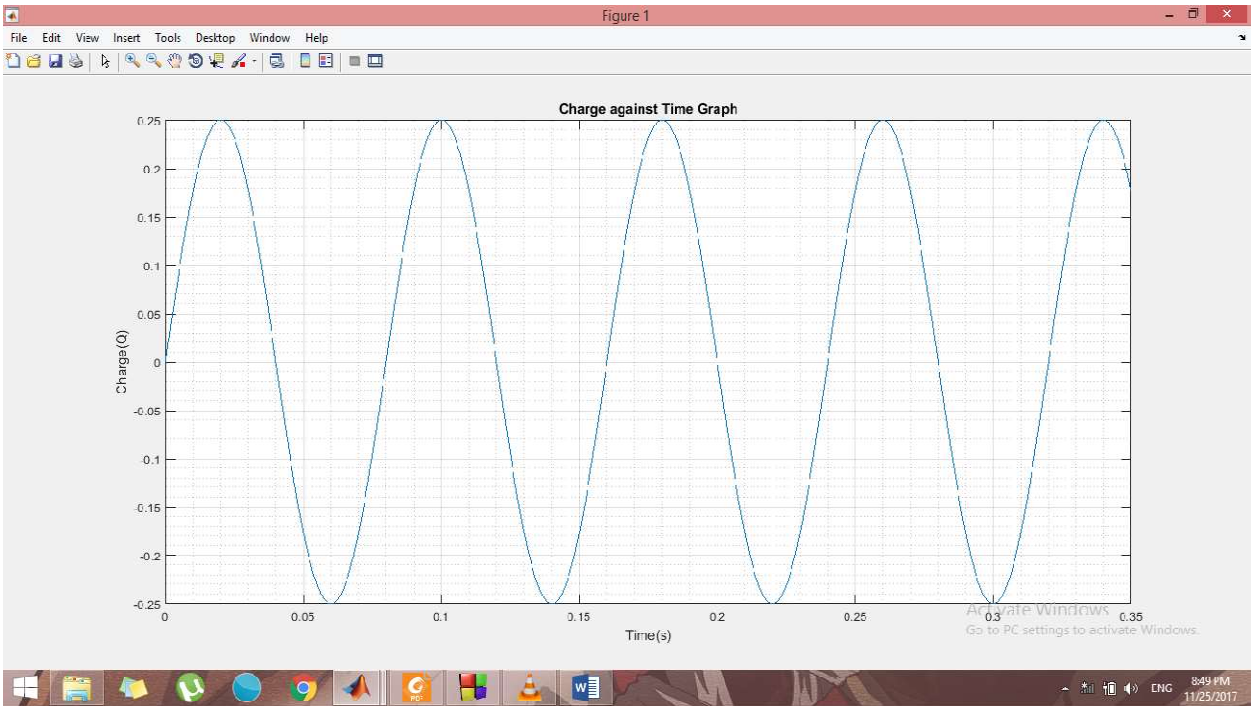
ENG281

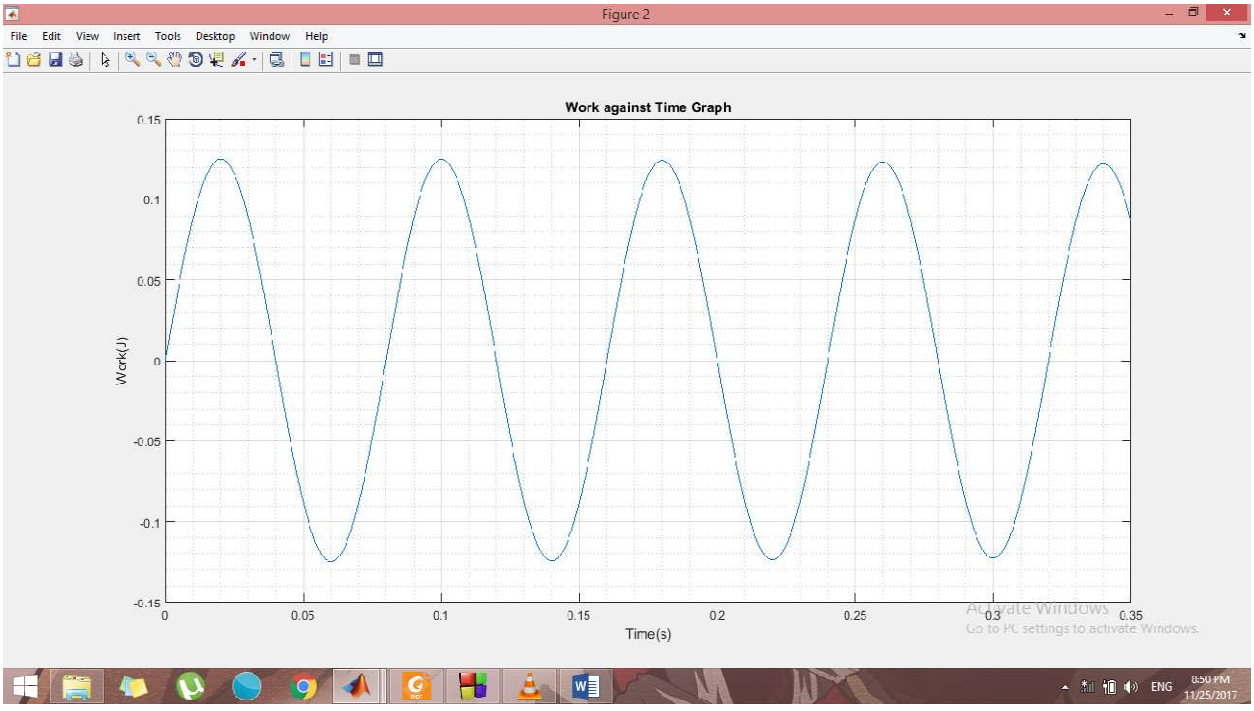
```
commandwindow
clear
clc
syms t
q= 0.25 * sin (25 * pi * t);
tn=[0:0.0001:0.35];
qn = subs(q,tn);
figure(1)
plot(tn, qn)
xlabel("Time(s)");
ylabel("Charge(Q)");
title("Charge against Time Graph");
grid on
grid minor
v = 0.5 * cos(0.2 * pi * t);
w = v * q;
wn = subs(w,tn);
figure(2)
plot(tn, wn)
xlabel("Time(s)");
ylabel("Work(J)");
title("Work against Time Graph");
grid on
grid minor
figure(3)
plot( tn, wn,tn, qn)
xlabel("Time(s)");
ylabel("Charge(Q) & Work(J)");
title("Charge/Work against Time Graph");
```

grid on

grid minor

legend("Power(W)","Current(A)");





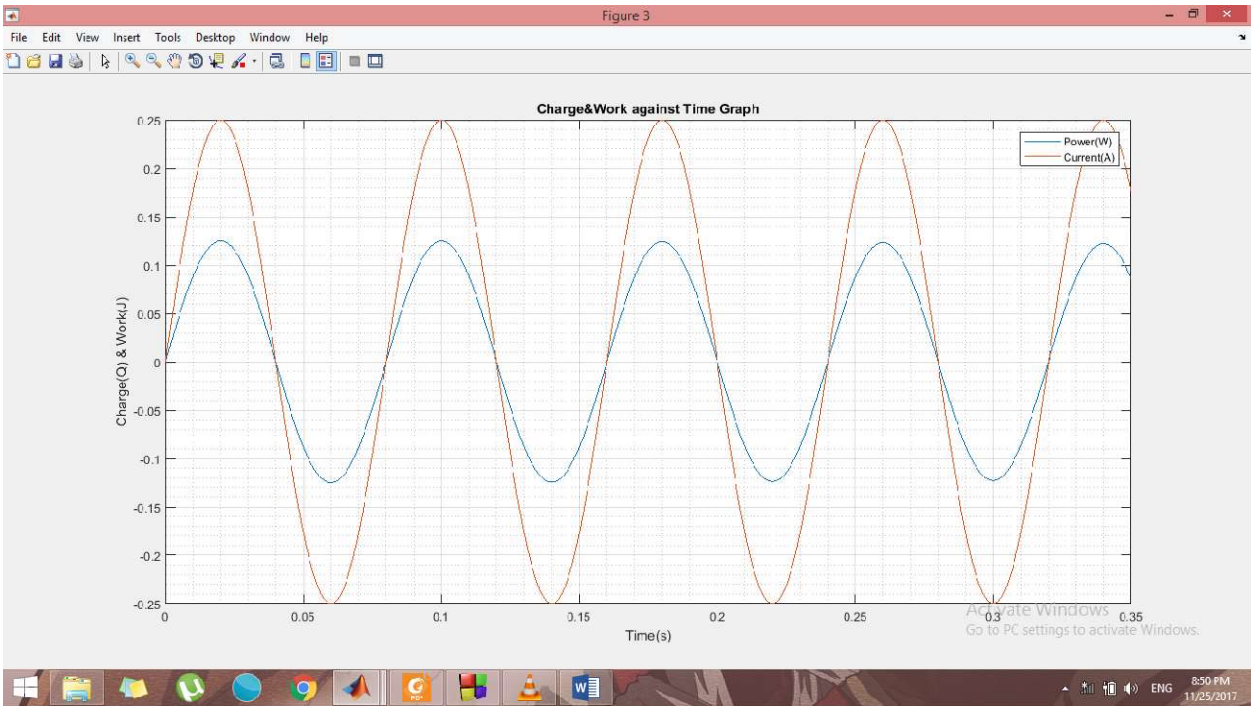


Figure 3
File Edit View Insert Tools Desktop Window Help
Charge&Work against Time Graph
Power(W)
Current(A)
Charge(Q) & Work(J)
Time(s)
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
Activate Windows
Go to PC settings to activate Windows.
ENG
8:50 PM
11/25/2017