ENERGY AND POWER

clc;

clear all;

close all;

T=0.8;

a=10;

f=5;

t=-8:0.01:8;

x=10\*sin(2\*pi\*f\*t);

y=x.^2;

E=trapz(t,y);

p=E/(2\*T);

display(['energy=',num2str(E),'joules']);

display(['average power=',num2str(p),'watts']);