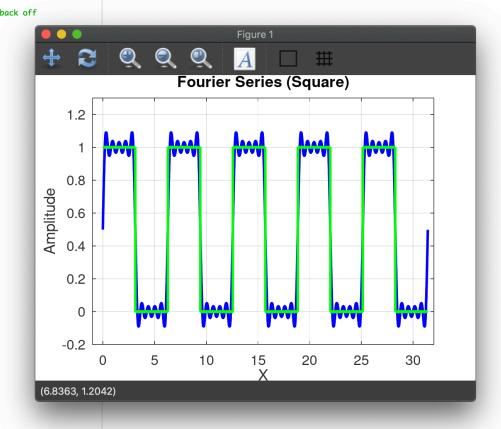
```
%through the speakers when amplitude is peaking and turns back off
                            %then graph will appear.
                            pkg load signal;
     10
 11
                                endfunction
13 ☐ function product = Series(n,x)
                                       product = 0.5;
for i=[0:n]
14 |
15 🚍
 16
                                                    product = product+product_An(2*i+1,x);
                                                   roduct = product = product
 17
18
19
20
21
22
23
24
25
26
27
28
29
                                                       endfor
                     enator
endfunction
                            x = 0.0:0.001:(2.0*pi)*5;
S = Series(4,x);
                         plot(x,S,'color','blue','linewidth',4);
title("Fourier Series (Square)");
xlabel("X","fontsize",12);
ylabel("Amplitude","fontsize",12);
axis([-1 32 -.2 1.3]);
set(gca, "fontsize",18);
hold on;
arid on:
30
31
32
33
34
35
                            grid on;
plot(x,square(x)*0.5+0.5,'color','green','linewidth',4);
36
37
```

%Fourier Square Series that plays a noise



HOMEWOYK & - MATTHEW TOWNSOND

1)
$$a S(t-t_0) = f(t) \rightarrow a S(t-t_0)$$
 $F(t) = f(w)$
 $F(t) = F(w)$