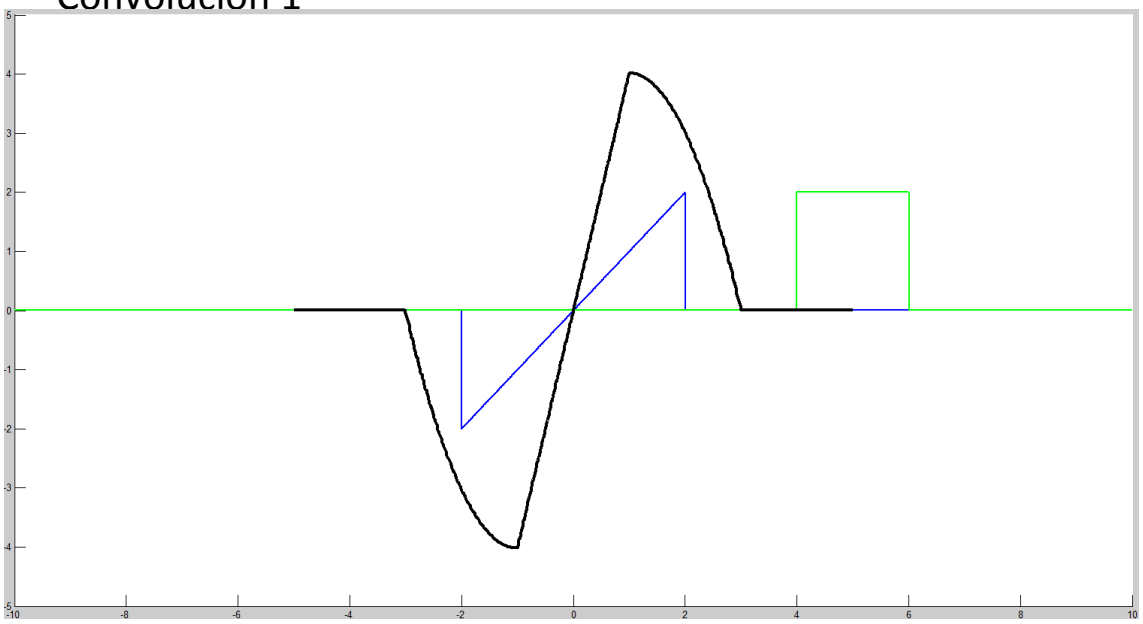
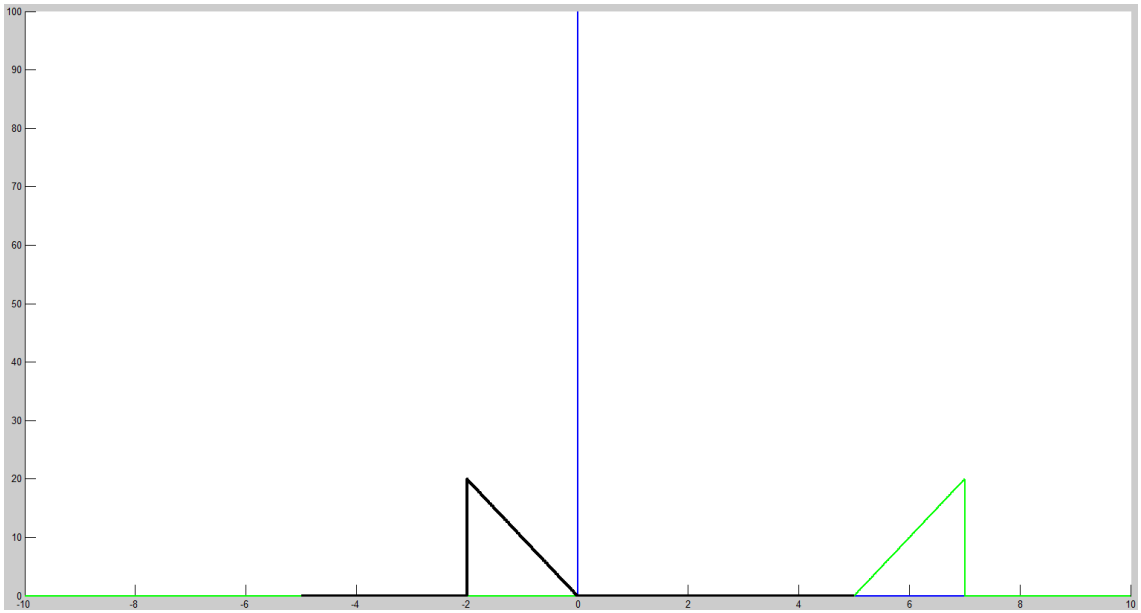
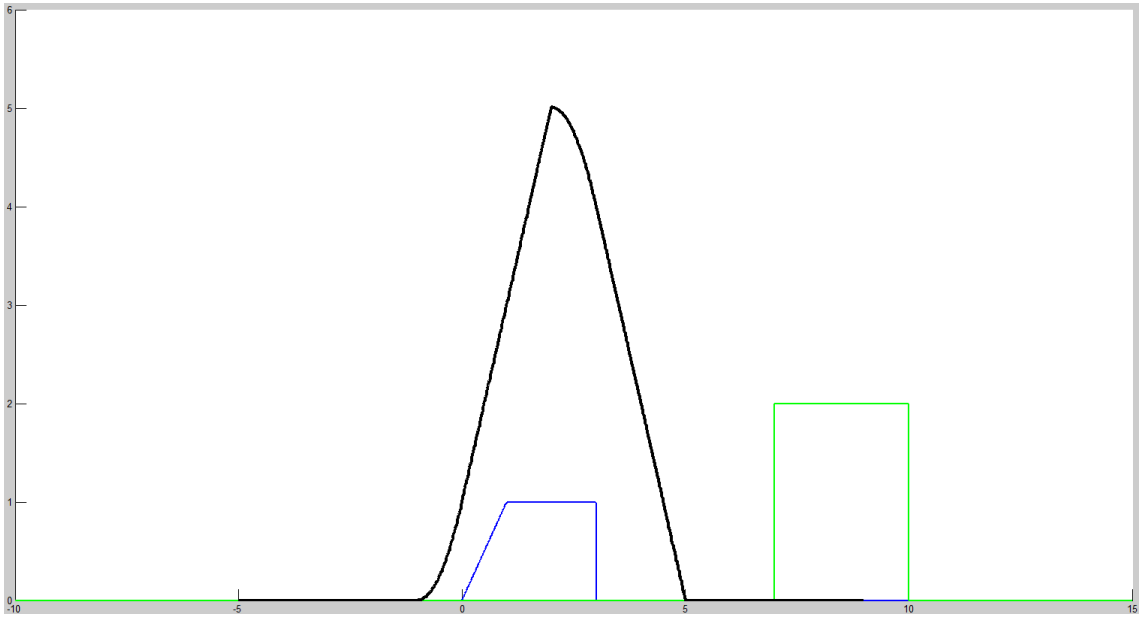
Convolución 1



Convolución 2



Convolución 3



```
clc
clear all
close all
j=1;
t0=-5;
dt=0.01;
tf=9;
tao=-10:dt:15;
x1(length(tao))=0;
x1(length(tao))=0;
x2(length(tao))=0;
x2(length(tao))=0;
for t=t0:dt:tf

 taom=tao-t;
for i=1:1:length(tao)
%         if tao(i)>=-2 &&
tao(i)<=2 %%Señal 1) x1(t)
%         x1(i)=tao(i);
%         else
%         x1(i)=0;
%         end
%          if tao(i)==0
%%Señal 2) x1(t)
%          x1(i)=1/dt;
%          else
%          x1(i)=0;
%          end
    if tao(i)>=0 &&
tao(i)<=1 %%Señal 3) x1(t)
       x1(i)=tao(i);
    elseif tao(i)>1 &&
tao(i)<=3
       x1(i)=1;
    else
       x1(i)=0;
    end
end

for i=1:1:length(tao)
taom(i)<=1 %%Señal 1) x2(t)
%         x2(i)=2;
%        else
%         x2(i)=0;
%        end
%        if taom(i)>=0 &&
taom(i)<=2 %%Señal 2) x2(t)
%         x2(i)=10*(taom(i));
%        else
%         x2(i)=0;
%        end
    if taom(i)>=-2 &&
taom(i)<=1 %%Señal 3) x2(t)
       x2(i)=2;
    else
       x2(i)=0;
    end
end

T(j)=t;
C(j)=sum(x1.*x2.*dt);
j=j+1;
hold on
plot(tao,x1,'b','LineWidth',
2);
plot(tao,x2,'g','LineWidth',
2);
plot(T,C,'k','LineWidth',3);
pause(0.0001)
 if t<tf
 cla
 end
end
```