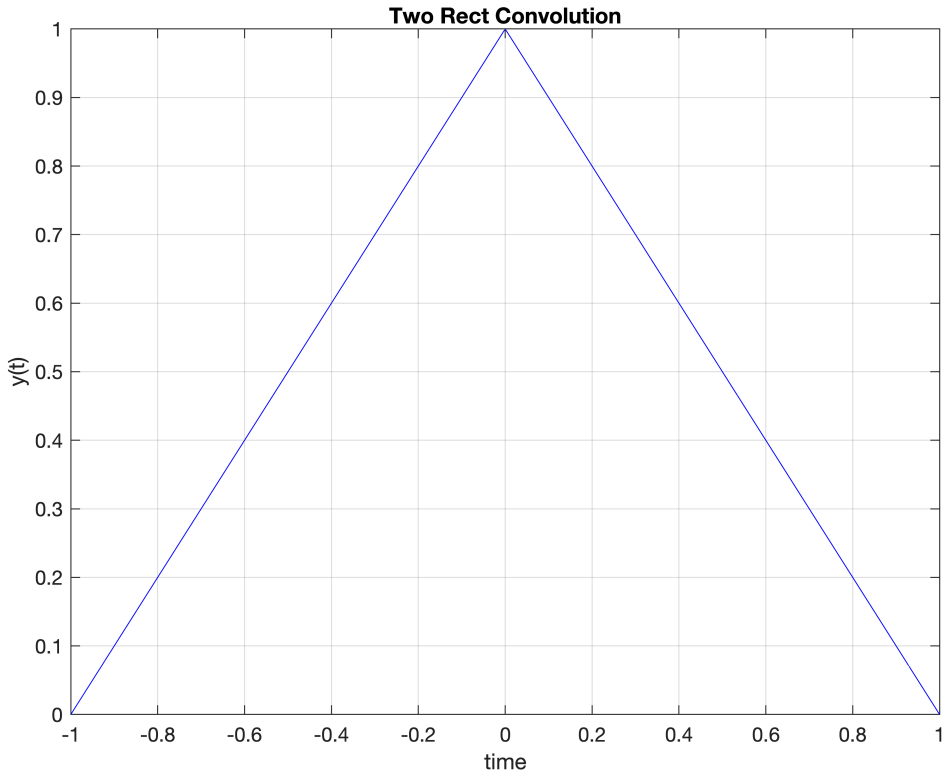
5(a) Task 1:

Code for plotting:

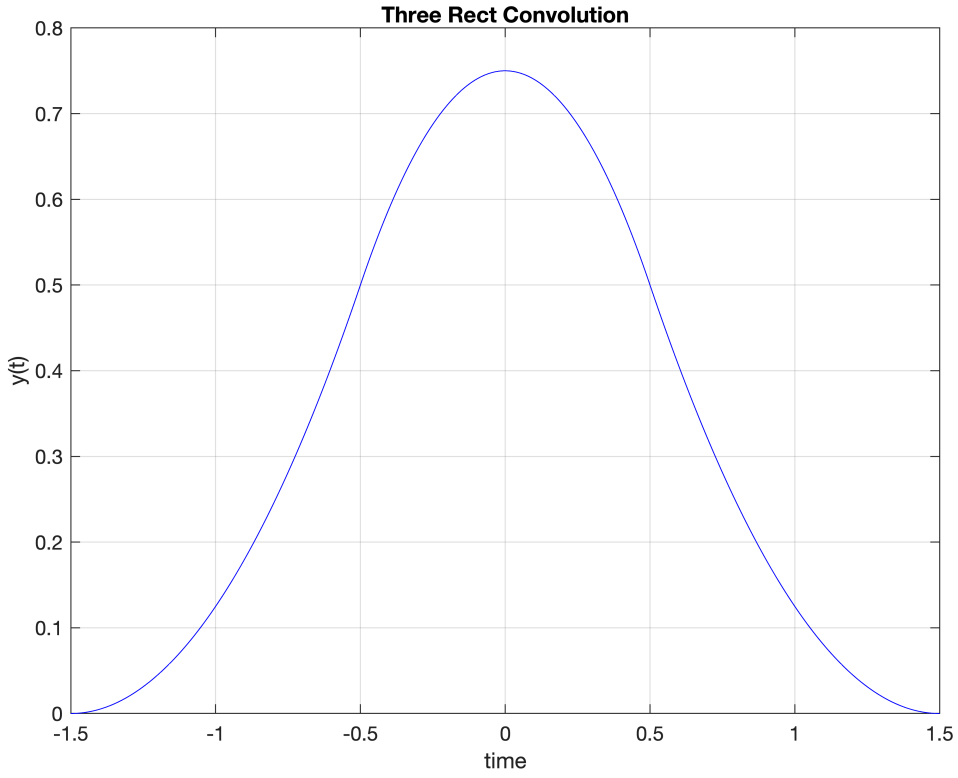
```
t = -.5:0.001:.5;
rect = rectangularPulse(t);
[y, yt] = nconv(rect, t, rect, t);
plot(yt,y,'b');grid on;
title('Two Rect Convolution'); xlabel('time');ylabel('y(t)');
```



5(b) Task 2:

Code for plotting:

```
t = -.5:0.001:.5;
rect = rectangularPulse(t);
[y, yt] = nconv(rect, t, rect, t);
[y, yt] = nconv(rect, t, y, yt);
plot(yt,y,'b');grid on;
title('Three Rect Convolution'); xlabel('time');ylabel('y(t)');
```



5(c) Task 3:

Code for plotting:

```
%N=100, so between the 100 rect's we perform 99 convolutions
t = -.5:0.001:.5;
rect = rectangularPulse(t);
%first convolution outside of for loop
[y, yt] = nconv(rect, t, rect, t);
for i=1:98 %the rest 98 convolutions
    [y, yt] = nconv(rect, t, y, yt);
end
plot(yt,y,'b');grid on;
title('N=100 Rect Convolution'); xlabel('time');ylabel('y(t)');
```