Problem S-1

```
using Plots
using LaTeXStrings
using DSP

pgfplots();

h = [1;1;1]
x = [0.5;2]
y = conv(h, x)
p1 = plot(h, line=:stem, xlabel="index-n", ylabel="h[n]", legend=:false)
p2 = plot(x, line=:stem, xlabel="index-n", ylabel="x[n]", legend=:false)
p3 = plot(y, line=:stem, xlabel="index-n", ylabel="y[n]", legend=:false)

plot(p1, p2, p3, layout = 3)

savefig("/tmp/plotS1.tex")

run(`pdflatex HW5-S1.tex`)
```