Problem S-5

```
using Plots
using LaTeXStrings

pgfplots();
t = [-2:0.01:2];
x1(t::Real) = exp(0.8 * t);
x2(t::Real) = exp(-0.8 * t);
x3(t::Real) = exp(0.8 * t) * cos(15 * t);

figa = plot(t, [x3, x1], title=L"x(t) = e ^ {0.8t}", xlabel = L"t", ylabel = L"x(t)",
    ↪ legend=:false)
#figa = plot!(t, x1, title=L"x(t) = e ^ {0.8t}", xlabel = L"t", ylabel = L"x(t)", legend
    ↪ =:false)
figb = plot(t, x2, title=L"x(t) = e ^ {-0.8t}", xlabel = L"t", ylabel = L"x(t)", legend=:
    ↪ false)

plot(figa, figb)
savefig("/tmp/plotS5.tex")

run(`pdflatex HW3-S5.tex`)
```