Homework questions

Week 2

This homework will not be collected or graded. You may consult your notes, classmates, or the internet. It is purely for your benefit.

a) Describe the process of converting a digital signal into an analogue one. Discuss the requirements on the reconstruction filter.

b) In MATLAB, sample the signal $\cos(2\pi 400t) + \cos(2\pi 40t)$ for three different sampling rates: 2 kHz, 1 kHz, 600 Hz. Plot all three sampled signals in the same plot using `subplot(311), subplot(312), subplot(313)`. Explain where aliasing is evident in this plot.