Assignment R1

Due Date: To be announced during the lectures and posted on the course web page.
Note: Problems identified only by number (e.g., A.1, 2.1, etc.) can be found in the coursepack textbook. More specifically, Problem *x.y* can be found in the coursepack textbook at the end of chapter/appendix *x*.

Preamble

This assignment covers material primarily related to the following: **multirate signal processing fundamentals**.

Problems

◇ 3.1 a b c d [multirate system transformations]
◇ 3.2 a b [effect of upsampling/downsampling on spectra]
◇ 3.6 c [time-domain analysis of sampling-rate convertor]
◇ 3.9 c e [polyphase representations of FIR filters]
◇ 3.14 a c [relationship between polyphase representations]