

Homework 7

Due: Thursday, Nov. 19, 11:15 AM

1. 5.1
2. 5.4 (a) and (b)
3. In this problem we will modify the running example from pg. 201.
 - (a) Assume $g_c(t) = \delta(t - 1) - \frac{1}{2}\delta(t - 3)$. Compute $p(t)$ and $h[n]$, draw the trellis diagram for the Viterbi algorithm that implements MLSE, and write down the formulas for the branch metrics.
 - (b) Repeat part (a) for $g_c(t) = \delta(t - 1) - \frac{1}{2}\delta(t - 3) + \frac{1}{2}\delta(t - 4)$.