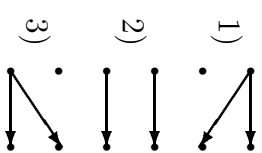
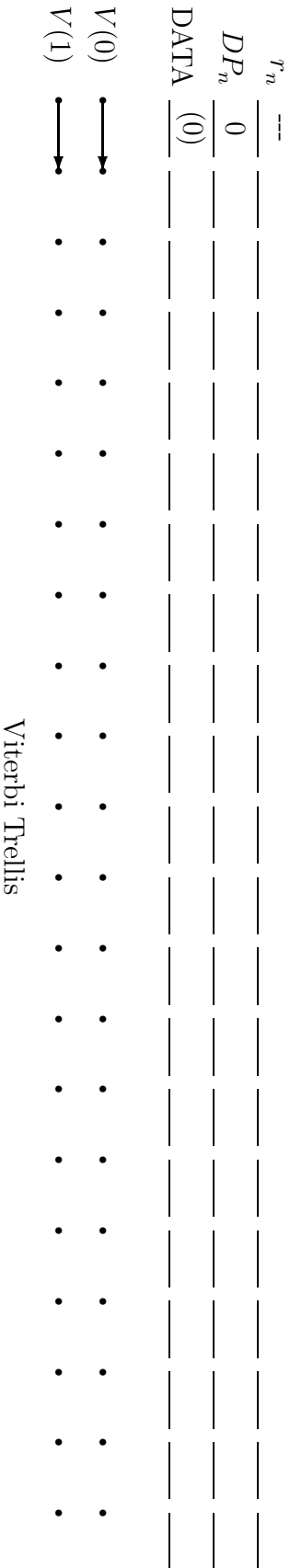
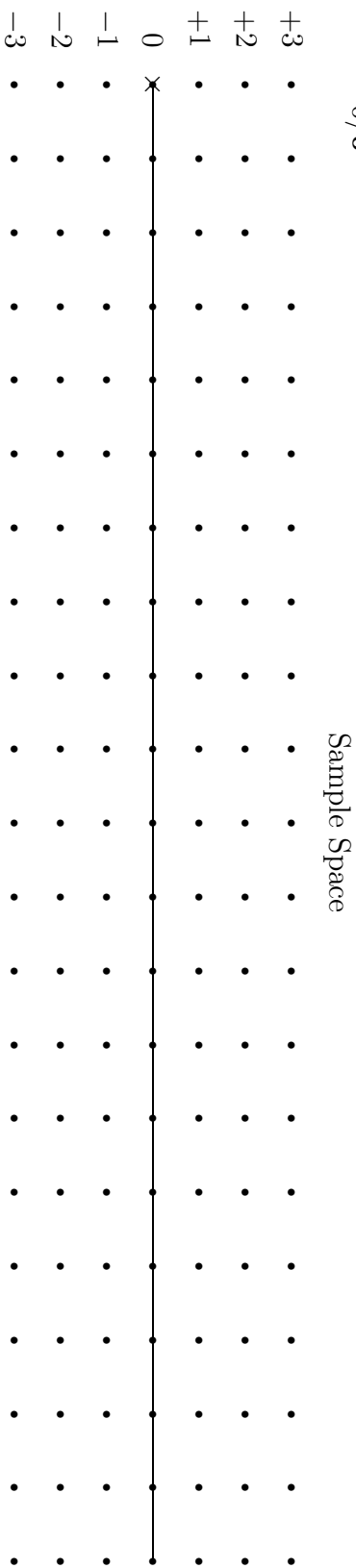


$$DP_n = \begin{cases} 1) & r_n - 1, & \text{if } r_n \geq DP_{n-1} + 1 \\ 2) & DP_{n-1}, & \text{if } DP_{n-1} - 1 < r_n < DP_{n-1} + 1 \\ 3) & r_n + 1, & \text{if } r_n \leq DP_{n-1} - 1 \end{cases}$$



PRML Class IV Decoding Chart



1. Fill in values for the r_n samples in the spaces provided. Draw the corresponding waveform in the sample space, if desired.
2. Compute the DP_n using the metric relations shown at the top of the form.
3. Fill in the Viterbi trellis using the diagram for case 1), 2) or 3).
4. Decode, using NRZI (1 - D), or NRZ decoding rules. Record results on 'DATA' line.