

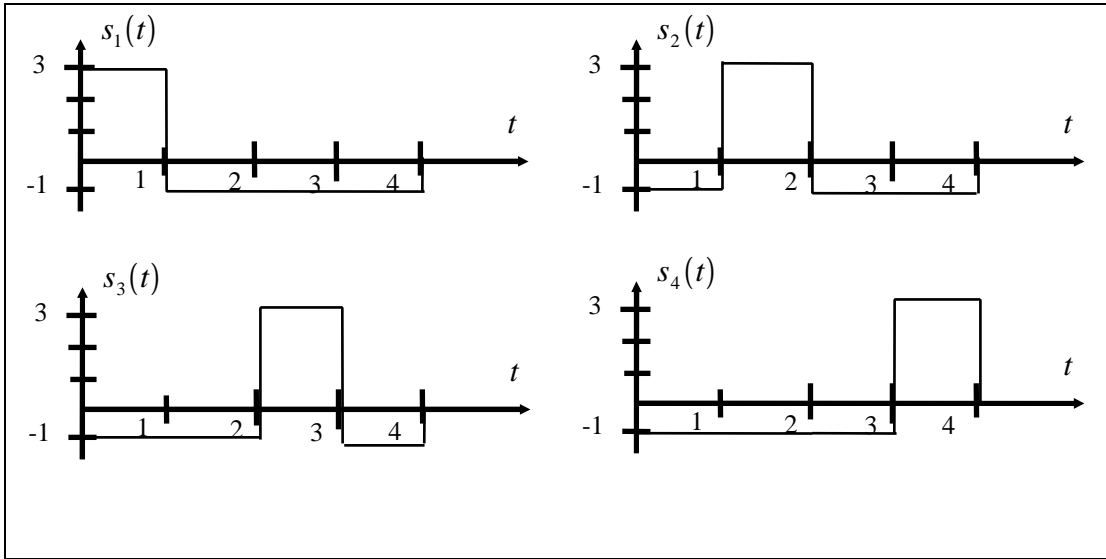
ECE 5654 - Digital Communications - Spring 2004

Homework #3 - Signal Space Representation of Signals

Assigned: Tuesday, March 2, 2004

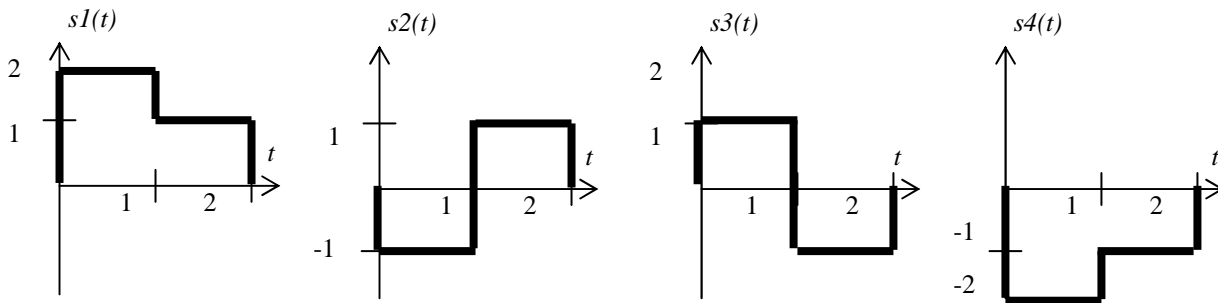
Due: Monday, March 8, 2004

1) Consider the following signal constellation:



Use the Gram-Schmidt procedure to find a complete orthonormal basis for this signal constellation

(2) Consider the following signal constellation



Find a complete orthonormal basis using the Gram-Schmidt procedure.