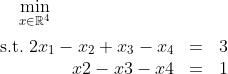
SVD

PCA

Min Norm

1. Prove that the Moore-Penrose inverse for an underdetermined system of linear equations gives you the minimum norm solution.
2. Find the minimum norm solution for the following system:



BCI

1. What are some of the applications of brain computer interfaces?
2. You have a matrix X, representing n neuron spikes in a window of d samples. With this matrix, describe how you will split X into training and test sets. Then, describe how you will use PCA to identify neuronal clusters and classify neurons in your test set.