Warm-up on SVM and PCA

1. Where do 'Support Vector Machines' get their name from?

2. In terms of computational efficiency, which is better - logistic regression or SVM that uses the sigmoid kernel 'trick'? Explain why.

3. How can we use SVMs for multi-class problems?

4. True or False - SVMs cannot be used for Regression.

5. Explain the use of a Scree Plot while doing PCA.

6. What are the advantages and disadvantages of using PCA for dimensionality reduction?

7. What are the potential problems we can run into if we do not normalize our data before doing PCA?