	PCA is technique for (Note: you can select multiple answers) dimensionality reduction data augmentation feature extraction variance normalisation
2.	When performing PCA we want to: find orthogonal vectors estimate the number of dimensions find the most meaningful basis find the components of the dataset
3. I as:	Every observation (i.e. a vector with dimensionality m) in the dataset can be represented linear combination of some basis vectors unit vectors linear combination of some unit vectors a set of orthonormal vectors
4. ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	We assume that the signal of interest is along the direction with the largest average along the direction with the largest variance along the direction with the smallest variance along the direction of one of the naive basis vectors
	One of the key ideas for solving PCA with eigenvalue decomposition is that a symmetric atrix can be diagonalized by an orthogonal matrix of its eigenvectors. True False
	If p_1 and p_2 are both principal components vectors, what statements are correct about em? Note: you can select multiple answers p_1 is orthogonal to p_2 p_1 is parallel to p_2 variance along p_1 is bigger than variance along p_2 variance along p_2 is bigger than variance along p_1