Practice Quiz - PCA

Pregunta 1:

1.	Among dimension reduction, what technique exist to visualize more than three dimensions in a single plot? (Select all tapply)	hat
	Color coding for discrete dimensions	
	✓ Correcto Correct	
	Using different symbols apart from simple points for discrete dimensions	
	✓ Correcto Correct	
	Sum Kurtosis and Skewness together for each row	
	Calculate the Standard Deviation of each row	
	Apply Fast Fourier Transformation	
	Add multiple lines to a run chart	
	✓ Correcto Correct	
Pregunta 2:		
	What properties are true about PCA for dimension reduction? (Select all that apply)	(
	PCA simply removes the columns with the highest correlation because their information content is lowest	·
	✓ PCA is a linear transformation, this means most of the original properties of your data are preserved	
	PCA is a linear transformation, this means most of the original properties of your trata are preserved	
	✓ Correcto Correct	
	PCA transforms your dataset so that the first k dimensions have the lowest correlation among each other	
	✓ Correcto Correct	
	PCA is a non-linear transformation, this means most of the original properties of your data set are lost	
Pregunta 3:		
Which of the following statements is true about information loss using PCA?		
	PCA dimensionality reduction is lossless	
	PCA dimensionality reduction is lossy	
	✓ Correcto Correct	