Correct answers are hidden. Score for this attempt: 1 out of 6 Submitted Apr 11 at 2:08pm This attempt took 38 minutes. Incorrect Question Which of the

Incorrect

0 / 1 pts Question 1 Which of the following are good applications of PCA? ✓ visualizing high dimensional data in 2D or 3D generating new features to increase dimensionality of data discovering hidden groups in data scaling features in a D dimensional dataset reducing variance in a dataset $\ensuremath{\checkmark}$ compressing examples to a more compact representations to speed up a learning algorithm 0 / 1 pts Question 2 Suppose you are running PCA. Given a set of input vectors ${\bf x}$ in R^D , you have discovered K principal components u_1 to u_K . How can we compute the k-th feature value for x in the K-dimensional space defined by the principal components? x_k $\bigcirc u_k^T x$ $\bigcirc u_k^T x_k$ Let's walk through a PCA example step by step. Consider 4 data points in a 2-d feature space: (-1,1), (0.5,-0.5), (1,1), (-0.5,0.5). 1 / 1 pts **Question 3** Is the data centered? Yes

Is the data centered?

Yes

No

	Give values of dim1 and dim2 below: (Round up to 4th decimal, and assume dim1 > 0)	
L		
Incorrect	Question 4	0 / 1 pts
	dim1:	
Incorrect	Question 5	0 / 1 pts
	dim2:	
L		
Incorrect	Question 6	0 / 1 pts
	If we project all points into the 1-d subspace defined by the second principal component, what is the variance of the project data? up to 4th decimal)	(round

Quiz Score: 1 out of 6