## Principal Component Analysis

5/5 points (100.00%)

Quiz, 5 questions

## **✓** Congratulations! You passed!

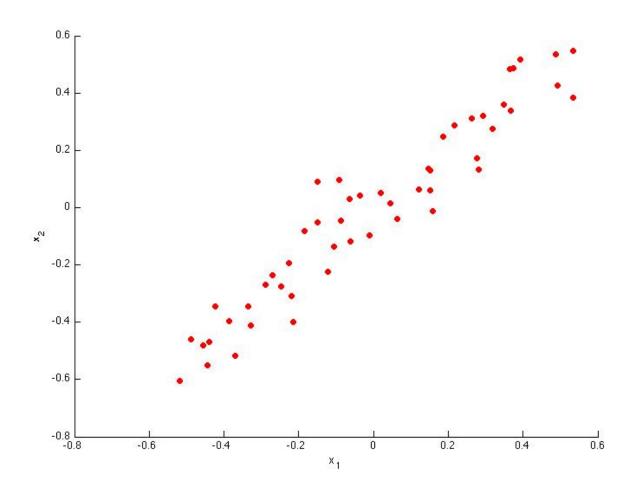
Next Item



1/1 points

1.

Consider the following 2D dataset:



Which of the following figures correspond to possible values that PCA may return for  $u^{(1)}$  (the first eigenvector / first principal component)? Check all that apply (you may have to check more than one figure).

## Principal Component Analysis

5/5 points (100.00%)

Quiz, **2**questions

Which of the following is a reasonable way to select the number of principal components k?

(Recall that n is the dimensionality of the input data and m is the number of input examples.)



1/1 points

3.

Suppose someone tells you that they ran PCA in such a way that "95% of the variance was retained." What is an equivalent statement to this?



1/1 points

4.

Which of the following statements are true? Check all that apply.



1/1 points

5.

Which of the following are recommended applications of PCA? Select all that apply.





