

Principal Component Analysis

Quiz, 5 questions

✖ Try again once you are ready.

Required to pass: 80% or higher

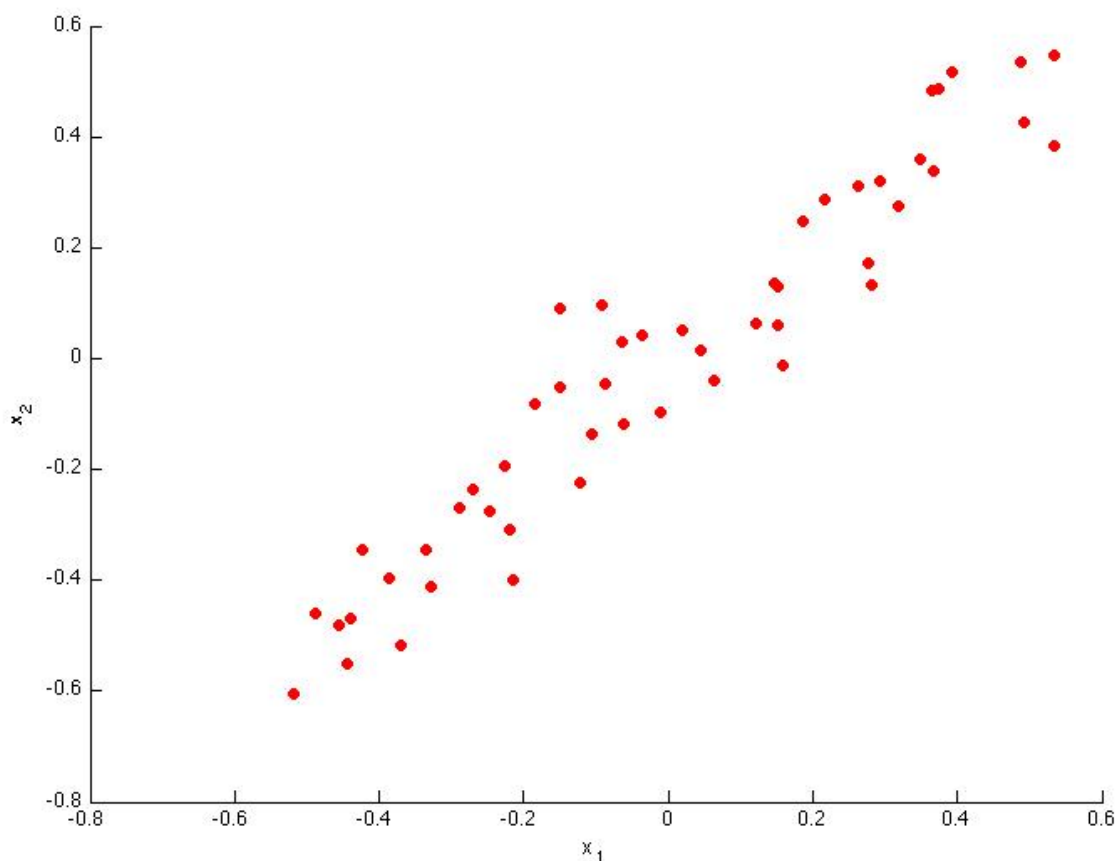
You can retake this quiz up to 3 times every 8 hours.

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1 / 1
point

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).

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2.

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.)



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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?



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4.

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



0 / 1
point

5.

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

