Principal Component Analysis

Quiz, 5 questions

✔ **Congratulations! You passed!**
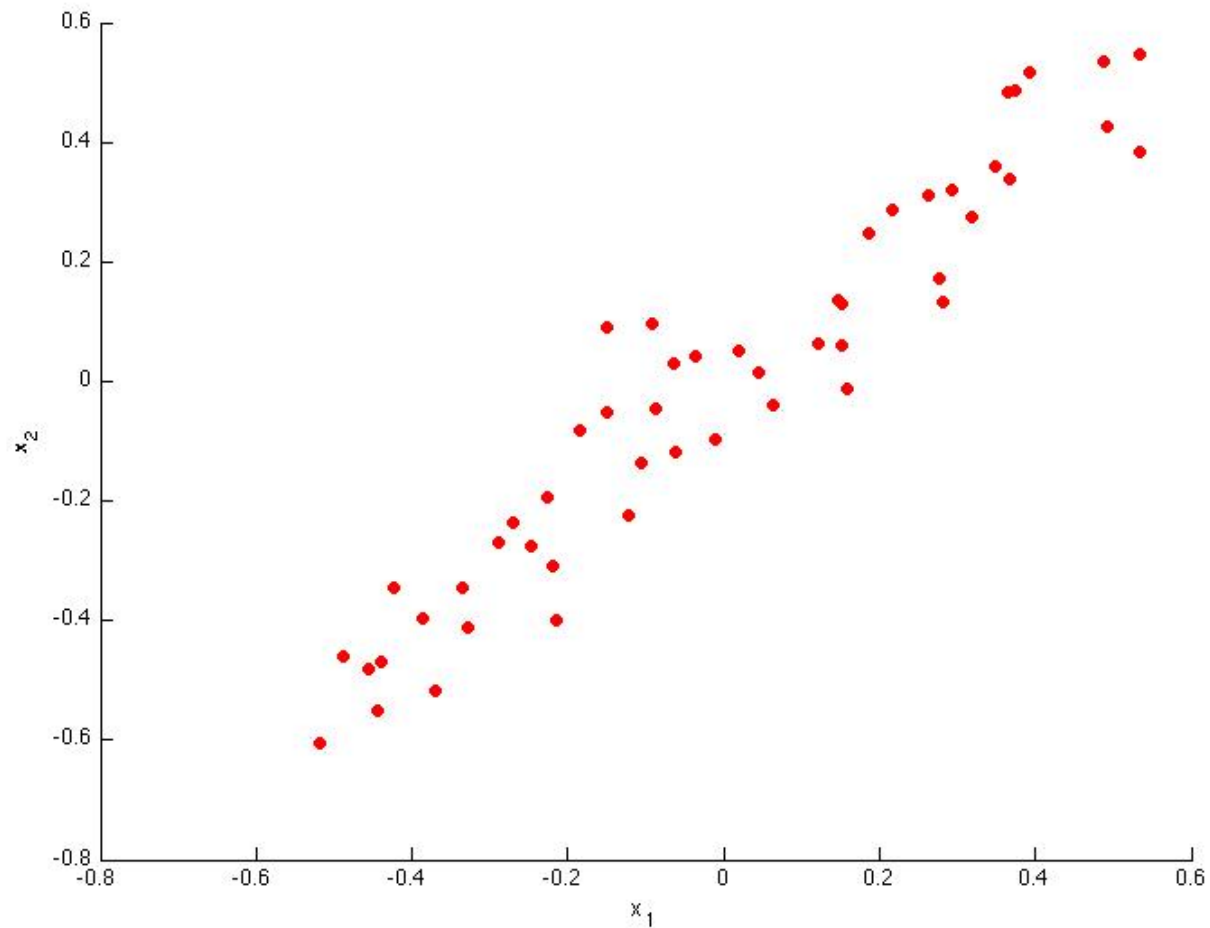
<div>Next Item</div>

✔ 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).

Principal Component Analysis

1 / 1
point

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.)

✔   1 / 1
point

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
point

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.