

Principal Component Analysis



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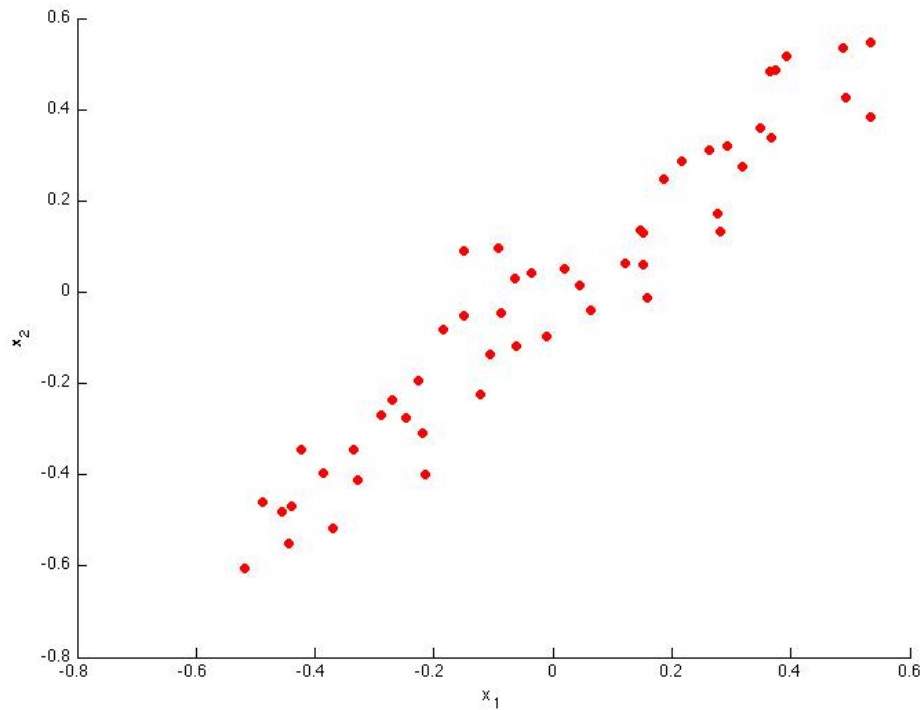
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1 / 1
points

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).

✓ 1 / 1 points

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 points

3.