Week 9 - Check Your Understanding

1. Principal Component Analysis can be used to reduce the dimension of a large dataset without losing much information

* \*a. True
  1. False

1. Principal component analysis should be used on dataset with categorical variables
   1. True

* \*b. False

1. The first principal should contain the most amount of variance in the original data

* \*a. True
  1. False

1. The second principal is always orthogonal to the first principal component.

* \*a. True
  1. False

1. One should not normalize the date before applying principal component analysis

* \*a. True
  1. False

1. We do not need to have any assumption of the distribution of the data to use principal component analysis

* \*a. True
  1. False

1. One should only use the first principal component to move forward with the data analysis
   1. True

* \*b. False

1. The number of component should always be a half of the number of the original variables
   1. True

* \*b. False

1. Principal component analysis can be used for data visualization

* \*a. True
  1. False