Quiz - Week #7

Instructions

The quiz is open book with no time limit. It is recommended that you use Excel to perform the computations necessary to answer the questions in this quiz.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	6 out of 20

Score for this quiz: **6** out of 20 Submitted Feb 24 at 9:24pm This attempt took 10 minutes.

	Question 1 3 / 3 pts	
	Your PCA analysis yields the eigenvalues: 9.3, 7.8, 6.4, 3.2, 2.7, 1.2, 0.7, 0.5, 0.4, 0.3. How many principal components should be kept using the 80% rule?	
Correct!	4	
	O 2	
	○ 3	
	© 5	

Question 2	0 / 3 pts

Your PCA analysis yields the eigenvalues: 9.3, 7.8, 6.4, 3.2, 2.7, 1.2, 0.7, 0.5, 0.4, 0.3.

How many principal components should be kept using the average eigenvalue rule?

orrect Answer

3

4

ou Answered

2

Your PCA analysis yields the eigenvalues: 9.3, 7.8, 6.4, 3.2, 2.7, 1.2, 0.7, 0.5, 0.4, 0.3.

How many principal components should be kept using the scree plot rule?

orrect Answer

7

6

Can not be determined from the plot.

Question 4 3 / 3 pts

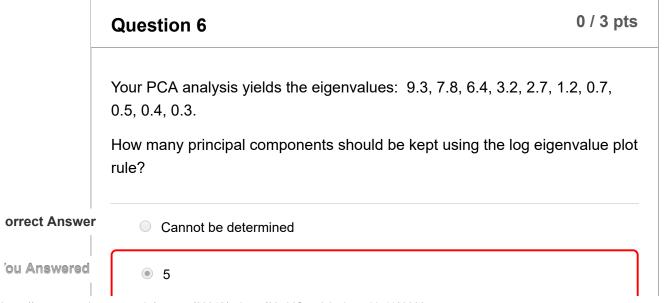
Your PCA analysis yields the eigenvalues: 9.3, 7.8, 6.4, 3.2, 2.7, 1.2, 0.7, 0.5, 0.4, 0.3.

How many principal components should be kept using the 90% rule?

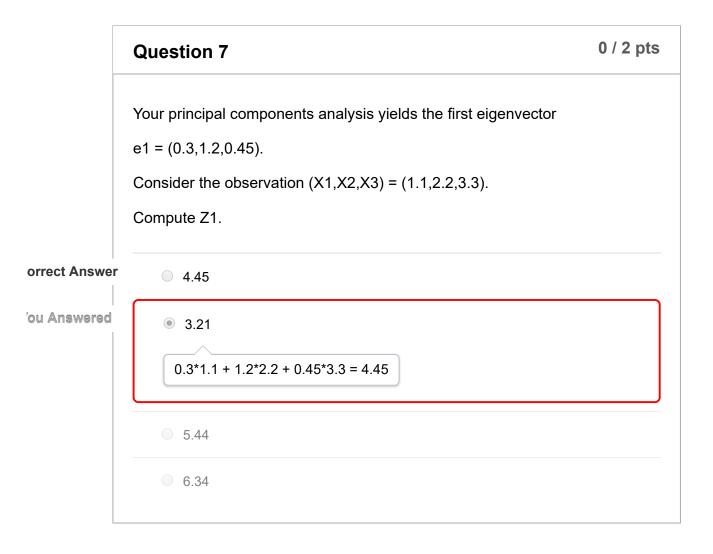
Correct!

• 5	
6	
0 7	
0 4	

Your PCA analysis yields the eigenvalues: 9.3, 7.8, 6.4, 3.2, 2.7, 1.2, 0.7, 0.5, 0.4, 0.3. How many principal components should be kept using the Kaiser rule? orrect Answer 6 7 4



The log eigenvalue plot for this set of eigenvalues does not yield a recommendation other than maybe all of the principal components.



Quiz Score: 6 out of 20