Visualization and dimension reduction

5/5 points (100%)

Quiz, 5 questions

✔ **Congratulations! You passed!**

<div style="border:1px solid">Next Item</div>

✔ 1 / 1
points

1.
Among dimension reduction, what technique exist to visualize more than three dimensions in a single plot? (Select all that apply)

☑ Color coding for discrete dimensions

Correct
Correct

☑ Using different symbols apart from simple points for discrete dimensions

Correct
Correct

☐ Sum Kurtosis and Skewness together for each row

Un-selected is correct

☐ Calculate the Standard Deviation of each row

Un-selected is correct

☐ Apply Fast Fourier Transformation

Un-selected is correct

☐ Add multiple lines to a run chart

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Correct
Correct

✔ 1 / 1
points

2.

What properties are true about PCA for dimension reduction? (Select all that apply)

☐ PCA removes the dimensions with the highest correlation because their information content is lowest

Un-selected is correct

☐ PCA is a linear transformation, this means most of the original propertes of your data are preserved

Correct
Correct

☐ PCA transforms your dataset so that the first k dimensions have the lowest correlation among each other

Correct
Correct

☐ PCA is a non-linear transformation, this means most of the original properties of your data set are lost

Un-selected is correct

✔ 1 / 1
points

3.

Which of the following statements is true about information loss using PCA?

Visualization and dimension reduction   **5/5 points (100%)**

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○   PCA dimensionality reduction is lossless

○   PCA dimensionality reduction is lossy
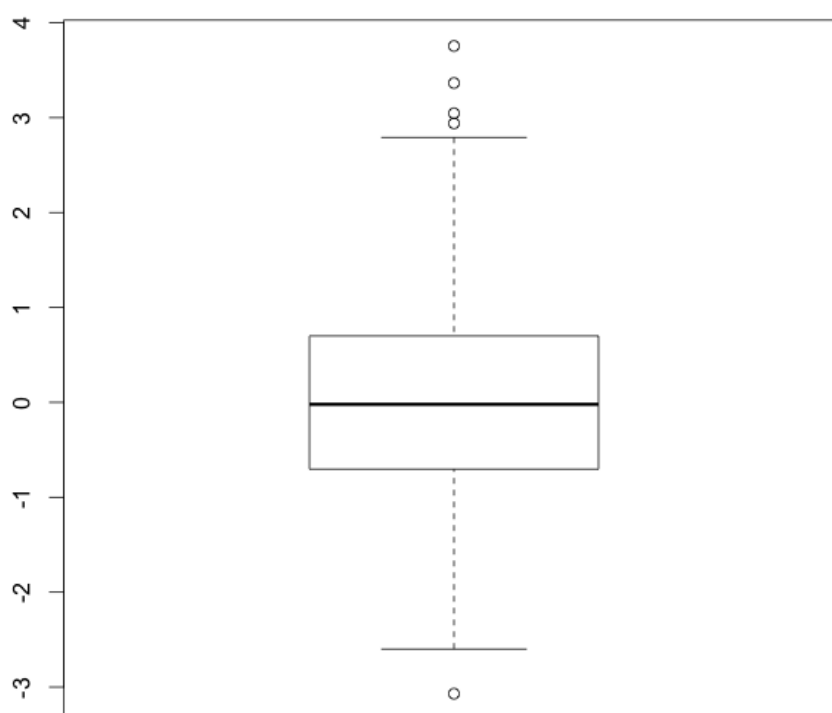
Correct
Correct

✔   1 / 1
          points

4.

How many outliers are present in this dataset?

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5

Correct Response

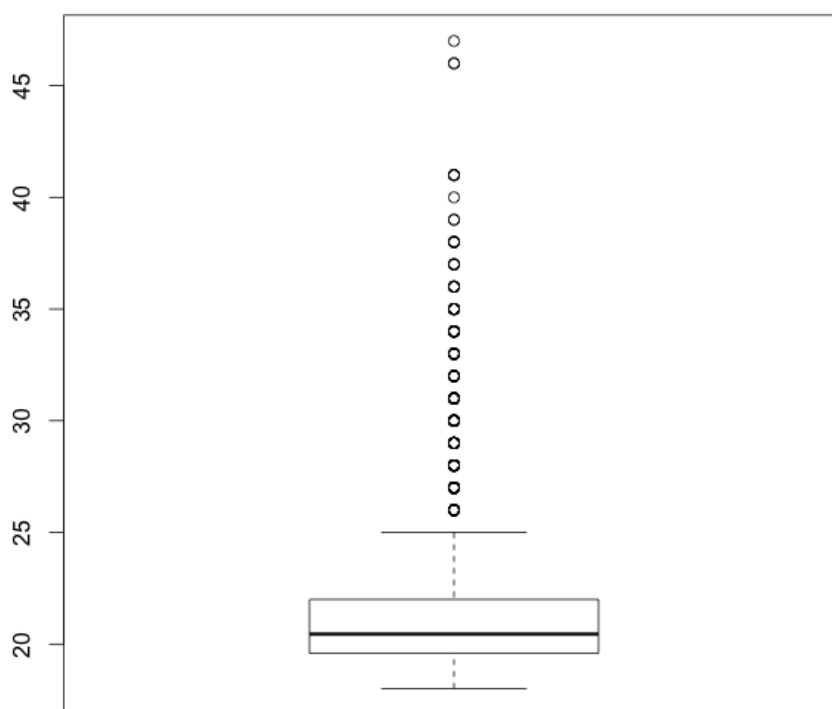Correct

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✔ 1 / 1
   points

5.

Which statements are true about this plot? (select all that apply)

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☑ This is a box plot

Correct
Correct

☑ This is a star ship of space invaders

Un-selected is correct

☑ There are more than 15 outliers present

Correct
Correct

☑