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HW: 2

Name:

THE UNIVERSITY OF TEXAS AT AUSTIN

Homework Assignment # 2 Exploratory data analysis.

These are further instructions on what your solutions to homework assignment #2 need to include. Before you start solving the problems, please download the required data sets for problems 1.156 and 1.162 from Canvas. They are available in the folder titled **Data sets**.

Canvas. They are available in the folder titled Data sets .
Problem 1.94. Provide an algebraic argument to prove the statement in the problem.
Problem 1.156. Please, use R to solve this problem. For both car types, you need to provide the following:
\Box a histogram,
\Box the mean,
\Box the median,
\Box the empirical standard deviation,
\Box the inter-quartile range (as interval).
Problem 1.162. Please, use R to solve this problem. For both years, you need to provide the following:
\Box a histogram,
\Box the mean,
\Box the median,
\Box the empirical standard deviation,
\Box the inter-quartile range (as interval).
Then, provide a scatterplot of the country-specific values.
Problem 1.176.
a. Specify the coefficients a and b .
b. Specify the coefficients a and b .
${f c.}$ Use your answers to parts ${f a.}$ and ${f b.}$ to calculate the both of the scores in <i>standard units</i> .

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