Spring 2021 Regression Part 3

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1. The percentage of scaled residuals expected to be in the domain [-2,2] for an adequate linear regression model is

   ○ 85

   ○ 90

   ○ 95

   ○ 100

2. The case where the coefficient of determination for regression of n data pairs to a straight line is one if

   ○ none of data points fall exactly on the straight line

   ○ the slope of the straight line is zero

   ○ all the data points fall on the straight line

3. The case where the coefficient of determination for regression of n data pairs to a general straight line is zero if the straight-line model

   ○ has zero intercept

   ○ has zero slope

   ○ has negative slope

○ has equal value for intercept and the slope

4. A student regresses y vs. x data to a straight line. The coefficient of determination is 0.5 and the straight line regression is given by y=2-3x. What is the value of the correlation coefficient? Enter the answer exactly up to 4 significant digits.

> Enter your answer

5. Give an example not discussed in class to illustrate that correlation is not causation. One or two complete sentences is enough.

> Enter your answer

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