Assignment 4

Due on 2020-01-28, 23:59 UT.

1. Another name for linear least squares regression is ________
   A. simple regression
   B. multiple variable regression
   C. multiple correlation
   D. multiple correlation

2. A graph used in simple regression analysis often is called ________
   A. regression graph
   B. regression line
   C. bell line
   D. multiple graph

3. In the expression $y = 0.6x + 5.5$, the slope is ________
   A. 6
   B. $0.6x$
   C. 5.5
   D. undefined

4. In the expression $y = 2x + 3$, the slope is ________
   A. 0
   B. $2x$
   C. $2x + 3$
   D. 2

5. In the expression $y = 3x - 4$, the intercept is ________
   A. $3x$
   B. $3x - 4$
   C. $-4$
   D. undefined

6. For a line of the expression $y = 2x + 3$, the correlation coefficient for the line is ________
   A. $r = 0$
   B. $r = 1$
   C. $r = 2$
   D. undefined

7. The expression $r = 0.999$ is ________
   A. exact correlation
   B. linear regression
   C. exact interpretation
   D. undefined

8. The coefficient of determination must be ________
   A. between $-1$ and $1$
   B. between $0$ and $1$
   C. between $-1$ and $0$
   D. $1$

9. The mean of the squared residuals is called ________
   A. coefficient of determination
   B. root square of mean
   C. mean square of the resister
   D. unexplained

10. The value of RSS can be ________
    A. between $-1$ and $1$
    B. between $0$ and $1$
    C. between $0$ and $1$
    D. any number between $1$ and $0$