

Stat 305 3 - Quiz II Topic Outline

The quiz will cover chapter 4 slides and chapter 5 slides up to the end of slide 32.

1. Relationships between variables (Ch. 4.1-4.2)
 - (a) Fitting and interpreting a regression line with least squares (SLR by hand)
 - (b) Checking model usefulness with correlation and R^2
 - (c) Calculating R^2 based on different output using appropriate formula.
 - (d) Analyzing and interpreting computer output for fitted polynomial regression and multiple regression equations.
 - (e) Finding residuals.
2. Discrete random variables (Ch. 5.1)
 - (a) Probability mass functions (pmf)
 - (b) Cumulative distribution functions (CDF)
 - (c) Expected value, variance, and standard deviation