



Data Analysis with Spreadsheets– Prelab Quiz

Answer the following questions. Submit your answers via Blackboard as either a MS Word (.docx) or MS Excel spreadsheet file (.xlsx). Be sure to show all of your work so that partial credit can be given.

1. [**4 points**] Problem 2.3 (page 36) from John R. Taylor's *An Introduction to Error Analysis*.
2. [**2 points**] Problem 2.5 (page 36).
3. [**3 points**] Problem 2.7 (page 36). Chapter 5.8 (pp. 149-151) may also be useful as you calculate and interpret the *discrepancy* and *significance*.
4. [**1 point**] Refer to your result for Problem 3. What is the probability that the measured density *disagrees* with the accepted value?