

STAT 672
Homework 2
due Wed. Feb. 8

3 Problems. Show all work. Please follow the Lab report directions off the homework web page for R Problems.
Please work in Groups 2 (or 3)

The numbers refers to *Hollander, Wolfe, and Chicken*, if not specified otherwise. Some problems have additional parts. Note: The number 3 in 3.5 indicates the chapter.

1. p. 75, 3.50

State the null and alternative hypotheses of the Sign Test. Assume that the significance level $\alpha = 0.05$ and state your conclusion. You can use the R `binom.test` function. You can use the p. 44 Table in your book to obtain B .

If you need the data, is available off the class web page at:

<http://www.rohan.sdsu.edu/~babailey/stat672/t3-1.txt>

2. p. 75, 3.49

Hint: Use p. 73 Comment 36, equation (3.56).

3. p. 75, 3.54

You can use the R `binom.test` function for both (i) and (ii) and compare the p -values. Note: For (i) just discard the zero values and adjust n . For (ii) you should treat the zero values as being negative (see p. 71 Comment 34).