HW 5 STAT 205 Draft solutions

Qu 1: 6.S.2 b) From R: 95 percent confidence interval:

2.076406 2.473594

c) The population mean is the mean diameter of the stem of the Tetrastichon cultivar of soft red winter wheat three weeks after flowering.

6.S.3 a) The data should be a random sample from the population, with independent observations. Also, the data should be normally distributed.



b)From the plot above the data look normal as the qq plot is approximately a straight line. We assume that it is a random sample with independent observations as we have no information otherwise.



Qu: 2.

a) Above we see the normal probability plots for the two samples are fairly straight, so it seems reasonable to assume normality in each group.

b) From R: 95 percent confidence interval:

-32.02964 13.38678

c) With 95% confidence, the true mean difference in soap versus no-soap bacterial colony counts is between -32.0296 and 13.3868.