

Spring 2003 (Newton)

15.075 Applied Statistics

Homework # 4 assigned 24 February 2003, due 5 March 2003

Read Chapters 5 and 6 and pages 613-618 in the text. Then do the following problems. Please use a word processor to type up your solutions. You may handwrite the equations, if you prefer.

1. 5.12
2. 5.20
3. 5.28. Best to use a name other than t or T for your variable. In addition to answering the questions, make a qqplot of this variable vs. quantiles of the t_4 distribution. If you wish, you can add a line by making a function `qqtline` from the function `qqline`. Say `qqtline<-qqline`. Then `fix(qqtline)`.
4. 5.30
5. 5.36
6. 6.2
7. 6.9
8. 6.12. S-Plus: `rnorm(20,50,6)`, S-Plus uses s.d. not variance as third argument.
9. 6.28
10. 15.8