

Homework 1 - Due Friday, January 31

Do Problems 7.10, 7.13, 7.14, 7.29, 7.37, 7.38, 7.43, 7.44 and the problem below.

Homework should be written neatly and clearly explained. If it requires more than one sheet, the sheets must be stapled. Include your name and id number in the top right corner of your homework.

Problem 1. Let T_1, T_2, T_3 be t-distributed random variables. Assume T_1 has 2 degrees freedom, T_2 has 4 degrees freedom, and T_3 has 5 degrees freedom.

1. What is the probability that $|T_1| \leq 1.886$?
2. What is the probability that $T_2 \geq 2.776$?
3. What is the probability that $T_3 \geq 1$?