Statistics 23, Section 1, Homework # 10

Due: Thursday, November 11, 1999

B 15: for $T \sim t(8)$, find:
  a. $P\{T < 2.3\}$ (0.975)
  b. $P\{|T| < 1.6\}$ (0.852)
  c. $P\{1.7 < T < 2.7\}$ (0.0502)

7.21 (Caution: wrong answer in text on part (d). Should be 1.72)

7.22 ((a) [3.12, 6.88] (b) [2.61, 7.39] (c) [1.25, 8.75] (d) [4.22, 5.78], [4.06, 5.94], [3.72, 6.28])

7.23

7.29

7.31 but ignore SAS, and use Excel instead.

7.36 a Best Guess ([0.217, 0.383]) and Conservative ([0.209, 0.391])

7.39 a Best Guess and Conservative ([0.579, 0.810])

7.43 a Best Guess and Conservative ([0.848, 0.852])

7.34 a (Y)

7.35 a, b

7.44 ((b) Y (c) Y (d) [0.147, 0.193])