

STAT 100 SUMMER II 2001 (PROFESSOR GREEN)
SOLUTIONS TO ASSIGNED PROBLEMS DUE
AUGUST 16

Problem 2.

- (a) $t_{.05} = 1.761$
- (b) $t_{.1} = 1.330$
- (c) $\pm t_{0.25} = \pm 2.06$
- (d) $-t_{.05} = -1.721$

Problem 4.

- (a) .05
- (b) .05 (Two tails, each with probability .025)
- (c) .9 (The complement consists of two tails, each with probability .05.)
- (d) .94 (The complement consists of two tails; the lower tail has probability .05, while the upper tail has probability .01)

Problem 6. 2.015, 1.812, 1.753, 1.725, 1.699. These values are decreasing with increasing d.f.; the limiting value is the normal value of $z_{.05} = 1.645$.

Problem 8.

- (b) c is between 2.201 and 2.718.
- (c) c is between 3.012 and 3.852.
- (d) c is between 2.447 and 3.143.
- (e) c is between 1.703 and 2.052.