

**STAT 400 SUMMER II 2001 (PROFESSOR GREEN)  
SOLUTIONS TO PROBLEMS DUE AUGUST 20**

44. (a), (b), and (d)

46.

- (a) .0778
- (b) .0841
- (c) .025
- (d) .0066
- (e) .5438

50. That the data are not significant enough to reject the null hypothesis.

52.

- (a) The  $P$  value is  $P(Z > .97)$ , which is .166. This is a borderline significance level, but nowhere near the .01 mentioned in part (b). It would probably be advisable to look at a larger sample before making a final decision.
- (b) .9973