2002 Multiple Choice #24 Homework Problem Wednesday 04/29

- 24. A consulting statistician reported the results from a learning experiment to a psychologist. The report stated that on one particular phase of the experiment a statistical test result yielded a p-value of 0.24. Based on this p-value, which of the following conclusions should the psychologist make?
 - (A) The test was statistically significant because a p-value of 0.24 is greater than a significance level of 0.05.
 - (B) The test was statistically significant because p = 1 0.24 = 0.76 and this is greater than a significance level of 0.05.
 - (C) The test was not statistically significant because 2 times 0.24 = 0.48 and that is less than 0.5.
 - (D) The test was not statistically significant because, if the null hypothesis is true, one could expect to get a test statistic at least as extreme as that observed 24% of the time.
 - (E) The test was not statistically significant because, if the null hypothesis is true, one could expect to get a test statistic at least as extreme as that observed 76% of the time.