

**Study Guide for TEST IV**  
MATH 1401

Test IV will consist of 15 multiple-choice questions worth 7 points each. The total number of points on the test is 105. Thus, you have a “built-in” 5-point bonus. **The test will be open notes.**

<b>Question No.</b>	<b>Objective(s)</b>
1	State the null hypothesis and alternative hypothesis used in testing a claim. [Section 8-1, p. 371, #5-8]
2	Determine the critical z scores used in testing a claim. [Section 8-1, p. 372, #21-23]
3	State the final conclusion of in a hypothesis test. [Section 8-1, p. 372, #9-11]
4-5	Find the value of the test statistic. [Section 8-1, p. 372, #13-16]
6	Calculate a <i>P</i> -value. [Section 8-1, p. 372, #17-20]
7-12	Perform a hypothesis test. (The questions will step you through one hypothesis test. It will either be a proportion, a mean, or a variance/standard deviation.) [Section 8-2, pp. 283-386, #9-32; Section 8-3, pp. 396-398, #9-24; Review Exercises, p. 409, #2-6]
13	Determine if there is a significant linear correlation using the Critical Values of the Pearson Correlation Coefficient Table (it is either A-5 or A-6 depending on your formula card). [Section 10-1, pp. 475-479, #5-10, 13-28; Review Exercises pp. 503-504, #1(a), 2(b)]
14-15	Find the regression equation given a set of data. Find the indicated predicted value using the prediction procedure described in Section 10-2. [Section 10-2, pp. 490-493, #5-8, 13-28; Review Exercises pp. 503-504, #1(c)-(d), 2(c)-(d)]