

(8 points; 12 minutes)

4. Random samples of 500 women and 500 men were asked to evaluate their job satisfaction as "Excellent," "High," "Moderate," or "Low." Use the data below to test the claim that women and men have the same proportions of these ratings. (Use $\alpha = 10\%$ for this test.)

Job Satisfac	Gender		Row
	Female	Male	Total
Excellent	64	72	136
High	103	126	229
Moderate	201	178	379
Low	132	124	256
Col. Tot	500	500	1000

Claim: _____

 H₀: _____

 H₁: _____

(8 points; 8 minutes)

1. A study of different "rehabilitation" programs needed the participation of 500 inmates from California prisons. A randomized list of all prisoners was prepared and the first 250 names on the list were assigned to rehab method #1 and the rest were assigned to rehab method #2. The rates of recidivism (later conviction and return to prison for another crime) were studied. Use the results below to make a 90% confidence interval for the difference between the recidivism rates for the two methods.

	Rehabilitation Method	
	Method 1	Method 2
Returned to Prison	112	175
Did not return to Prison	388	325