

Math 308 Assignment 7

Exercises 3.9

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The null hypothesis is that the difference in proportions is zero. However, performing the permutation test gave a p -value of 0.002, allowing us to reject the null at 1% confidence. Thus, the difference in proportions is statistically significant.

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The p -value is 1, which does not let us reject the null hypothesis that the presence of competition has no value on the height change of the seedlings.

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Null Hypothesis Voting preference is independent of age.

Alternative hypothesis Voting preference depends on age.

Age	Response		
	For	Against	All
18-29	172	52	224
30-49	313	103	416
50+	258	119	377
All	743	274	1017

Table 1: Observed values