

QUICK HELP

MAT 109 Statistics

Test for Goodness of Fit

Hypothesis:

H_0 : The model is correct.

H_1 : The model is not correct.

Required Information:

α = level of significance

n = sample size

df = # rows - 1

1. Construct a table with the following columns

O , p , E , $(O - E)$, $(O - E)^2$, and $\frac{(O - E)^2}{E}$

The values in the p column will be from the model you are testing.

Test Statistic:

$\chi^2 = \sum \frac{(O - E)^2}{E}$ The test statistic will be the sum of all of the entries in the last column of your table.

Test Limit:

$\chi^2_{\alpha}(df)$ will be the test limit.