

Assignment_19.1

Here is the table of expected courts:

10	High School	Bachelor	Masters	Phd.	Total
Female	50.886	49.868	50.377	A3. 868	201
Mate	49.114	48.132	48.623	48.132	194
Total	100	98	99	98	395

So, working this out $X^2 = \Sigma[(0-E)^2/E]$ $X^2 = (60-50.886)^2 + (54-49.868)^2 + ... + (57-48.132)^2 - 50.886$ 49.868
48.132

The oritical value of χ^2 with 3 degree of freedom is 7.815.

Since 8.006 > 7.815, therefore we reject the null hypothesis and conclude that the education fevel depends on gender at a 5% level of eignificant