

Recall the data from the questionnaire item “Sex is fun for me and my partner.”

<i>Husband's Rating</i>	<i>Wife's Rating</i>			
	never or occasionally	fairly often	very often	almost always
never or occasionally	7	7	2	3
fairly often	2	8	3	7
very often	1	5	4	9
almost always	2	8	9	14

1. Compute the statistic X^2 and the p-value for testing the model with independence between husband's rating and wife's rating. Provide an interpretation, stated in the context of the problem.
2. Now compute the statistic Z^* and the p-value for testing the independence model using the correlation estimate $\hat{\gamma}$. Provide an interpretation, stated in the context of the problem.
3. Explain why a monotonic association model is better than a general association model in this example.