The 1998 GSS states, "There are always some people whose ideas are considered bad or dangerous by other people. For instance, somebody who is against all churches and religion...If such a person wanted to make a speech in myour (city/town/community) against churches and religion, should he/she be allowed to speak or not?" Among the male GSS respondents, 631 said they would allow the speech and 154 would not allow it. Among the female respondents, 762 would allow and 303 would not allow the speech. What are the conditional odds in favor of allowing an atheist to speak, and what is the odds ratio?

# of columns # of raws Significance level Observed result Allow Not allow	2 2 0.05 <u>Male</u> 631	Female	Total	
# of raws Significance level Observed result Allow Not allow	2 0.05 <u>Male</u> 631	Female	Total	
Significance level Observed result Allow Not allow	0.05 <u>Male</u> 631	Female	Total	
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Allow Not allow	<u>631</u>	<u>i emale</u>	IOTAL	
Not allow	001	762	1393	
Total	154	303	457	
Total	101	000		
lotal	785	1065	1850	
Expected				
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	Male	Female	Total	
Allow	591.1	801.9	1393	
Not allow	193.9	263.1	457	
Total	785	1065	1850	
Observed result	t - Expecte	ed value		
	Male	Female		
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Not allow	-39.9	39.9		
	0010	0010		
(Observed resul	lt - Expect	ed value) <sup>2</sup>	:	
(0.000.000.000	Male	Female		
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Not allow	1593.30	1593.30		
(Obsorved resu	lt - Export	tod valuo) <sup>2</sup>	/ Expected value	
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	0.22	0.00	14.5	
			19.0	

Ha: Depender	nce			
df =	1			
X <sup>2</sup> =	19.0			
P-value =	0.00001	<	0.05	
Therfore,	Ho can be	e reject	ed and there is	relationship.

Odd ratio