You conducted a study to examine the relationship between party affiliation and gender. You find the following:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Democrat** | **Republican** | **Independent** |
| **Male** | 52 | 65 | 20 |
| **Female** | 88 | 52 | 35 |

Are sex and party affiliation related?

Report the appropriate null and research hypotheses and the critical value  
(alpha = 0.05). In addition, provide your statistical conclusion, including calculation of test statistic and what the data suggests in one to two sentences.

Write your response in a Microsoft Word document