|  |  |
| --- | --- |
| Claim | Statistical Evidence |
| **Assumption:** All of the variables are normally distributed. | Skew and Kurtosis |
| **Assumption:** There is a linear relationship between each predictor variable and the outcome variable | Scatterplot and Correlation Table (is the correlation significant) |
| **Assumption:** The assumption of homoscedasticity is not violated.The variance around the regression line is not a function of x. | Scatterplot |
| **Correlation Results:** Predictor variables X1, X2, and X3 are all correlated with the outcome variable Y. | Reference your correlation table |
| **Model 1 Results:** A model with variable X1 and X2 explained \_\_\_% of the variance in Y. | *F*(\_\_\_, \_\_\_) = \_\_\_\_\_, *p* = \_\_\_\_, *R2* =\_\_\_ |
| **Model 2 Results:** A model with variable X1, X2, and X3 explained \_\_\_% of the variance in Y. | *F*(\_\_\_, \_\_\_) = \_\_\_\_\_, *p* = \_\_\_\_, *R2* =\_\_\_ |
| **Model Comparison:** Model comparison of the two models indicated that the model with X1 and X2 was significantly better than a model with X1, X2, and X3 | *F*(\_\_\_\_\_, \_\_\_\_), *p* = \_\_\_\_, *ΔR2* = \_\_\_\_ |
| **Strength of Predictors in your Chosen Model:** Of the two predictor variables in the final model, X1 was a stronger predictor than X2. | β = \_\_\_, *p* = \_\_\_\_\_ |