Despite running 100 tests per n number of variables, we have a large discrepancy between the data we found during our tests and what the trend line of the data is. The Big-O we found was O(log(n)). Our trendline is 93.18% accurate.

We have included the graph with the data and trend line, and the formula of the trend line (y = 341.43ln(x) – 405.92). To have more accurate test results, increase the number of experiments; however, due to the computing limitations of our computers, we were not able to increase the number of experiments per variable beyond 100.