**Experiment 1 Report Form**

**(**answers should not be in **bold)**

**Name:**

**Partner (s) name:**

**Section:**

**4. Excel Data Calculations**

**(Attach 1st page of spreadsheet to next page)**

**5. Kaleidagraph: Histograms and Statistics**

**(Attach graphs to following pages)**

**5.5**

**5.6**

**6. Kaleidagraph: Scatter Plots and Fits**

**6.1**

**6.2**

**6.3**

**(Attach plots for section 6 in following pages)**

**7. Data Analysis**

**(Attach plots for section 7 in following pages)**

**7.4**

**8 Summary Tables**

|  |  |  |
| --- | --- | --- |
| Quantity | Mean | Standard Deviation |
| MPG Calculated |  |  |
| MPG Cosine Fit Residuals |  |  |
| MPG Calculated / MPG Readout (%) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| f(x) fits | a | b | c |
| true parabola parameters |  |  |  |
| f(x) fit parameters |  |  |  |
| fuzzy f(x) fit parameters |  |  |  |
| uncertainty of fuzzy fit parameters |  |  |  |

**9. Questions**

**9.1**

**9.2**

**9.3**

**10. Searching for Flaws**

**10.1**

**10.2**

**10.3**

**10.4**

**10.5**

**10.6**

**11. Improvements**