Laboratory One Report

Group Members

Your laboratory report is to be written in paragraph form and have this sheet, with the names of all group members filled in above, stapled on top. Your report must be typed and free of spelling, grammatical and punctuation errors.

At a minimum include the following in your report:
1. A brief description of the overall situation being modeled.
2. A brief description of the procedure used for collecting your data. What does the CBL measure?
3. What is your equation of the form $f(x) = k(x - x_1)(x - x_2)$ which you obtained using the trial and error method? Describe that method; be sure to include how you obtained $k$, $x_1$, and $x_2$. What does each represent and what role does each play in fitting the shape, x-intercepts and vertex of the parabola? Where is the vertex of this function?
4. What is your equation of the form $f(x) = k(x - x_1)(x - x_2)$ which you obtained using the algebraic method? Describe that method; be sure to include the calculations used to obtain $K$. Why does this method for computing $K$ make sense? Where is the vertex of this function?
5. Which of the two functions best-fit your data? Express this function in quadratic form $f(x) = ax^2 + bx + c$.
6. Provide a data point graph with axes labeled and scaled containing at least 5 labeled data points. The graph should be placed on the bottom of this sheet.