

Half-life Post-lab Questions

1. Enter your individual data and the class averages into lists in your graphing calculator. Graph both sets of data on the screen at the same time. Choose different marks for your data and the class data, and choose the first “type” of graph that doesn’t connect the lines. Show your instructor your screen at this point.
2. Perform a linear regression and an exponential regression (*expreg*) on the class data. List the values that the calculator gives you for each regression.
3. Which function – linear or exponential – is more accurate for this data? Why? Explain your answer using information from the calculator.
4. Choose the more accurate function from questions 3 above, and perform that regression on your individual data. Which is more accurate – your own data or class data? Explain your answer using information from the calculator.
5. Turn the plot with your individual data off. Perform the most accurate regression on the class data again. Paste this regression into $Y=$ and graph this best-fit regression on your screen. Show your instructor your screen at this point.
6. Graph your data and the class data on graph paper on the same set of axes. Attach your paper graph to this lab report.