Algebra 1 Ch. 6 TI-Nspire Instructions

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| **Adding Points in a List** |  |
| 1. Click “ON” and create a new document. |  |
| 2. Click “Add List & Spreadsheets” |  |
| 3. Move the up arrow to be in the top left corner of the table. |  |
| 4. Title the first column with what represents x (for example: time) |  |
| 5. Enter your x values in the x column |  |
| 6. Click “tab” to move to the right. Title the second column with what represents y (for example: distance) |  |
| 7. Enter your y values in the y column |  |
| **Making a Scatter Plot Graph** |  |
| 8. Click “ctrl” then “doc” to insert a new page. |  |
| 9. Click “Add Data & Statistics” |  |
| 10. You should now get a page that looks like one to the right.  |  |
| 11. Click on the bottom axes “click to add variable”. Select the variable you chose for the x axes (in this example, time). |  |
| 12. Click the y axes where it says “click to add variable”. Select the variable you chose for the y axes (in this example, distance). |  |
| 13. You should now have a scatter plot with your axes labeled.  |  |
| **To Find the Equation of Best Fit (LSRL)** |  |
| 14. Go back to your list on the previous tab by clicking “ctrl” then left arrow on the touch pad. |  |
| 15. Move to the third column and click “menu” |  |
| 16. Select “Statistics” then “Stat Calculations”. |  |
| 17. Select “Linear Regression (mx+b)”. |  |
| 18. Now select the variables you used for your x and y lists using the drop down menu from the arrows at the right of each space. In our example, x was time and y was distance. Click “OK”. |  |
| 19. In your table you should now see more data about the line of best fit (LSRL). Across from m is your slope and across from b is the y-intercept. |  |
| 20. Scroll down to see the r2, r and residual values. |  |
| **To Graph the Line of Best Fit (LSRL)** |  |
| 21. From your scatter plot graph page, Select “menu” and “Analyze” |  |
| 22. Then select “Regression” and “Show Linear (mx+b)” |  |
| 23. You should now see your scatter plot with the line of best fit drawn in and the equation. |  |