**Using Excel to Graph a Function**

1. Make the x-values

 a. Type x in cell A1.

 b. Type 1 in cell A2 and type 2 in cell A3.

 c. Select cells A2 and A3 by clicking-and-dragging. Select the “formula drag” point in the lower right corner of the selection and drag this down until you have the values 1 through 15 showing.

2. Make the Column of Function Values

 a. Type y in cell B1.

 b. In cell B2 type: = A2^2 and press Enter. We are starting with the example y=x2.

 c. Select cell B2 then click the lower right corner and drag the formula down for all x-values.

3. Make the Graph

 a. Select the cells A1 through B16 (both columns and the labels should be highlighted).

 b. From the “Insert” menu, choose “Scatter,” then choose smooth line sub-type.

4. Label Graph

 a. Choose Layout (Chart Tools), Axis Titles, Title Below Axis, enter axis titles (for Vertical choose rotated title).

 b. Go to A1 and B1 to change x and y to the same axis titles.

 c. Click on title in graph and give an appropriate name.

**Using Google Spreadsheet to Graph a Function**

1. Make the x-values

 a. Type x in cell A1.

 b. Type 1 in cell A2 and type 2 in cell A3.

 c. Select cells A2 and A3 by clicking-and-dragging. Select the “formula drag” point in the lower right corner of the selection and drag this down until you have the values 1 through 15 showing.

2. Make the Column of Function Values

 a. Type y in cell B1.

 b. In cell B2 type: = A2^2 and press Enter. We are starting with the example y=x2.

 c. Select cell B2 then click the lower right corner and drag the formula down for all x-values.

3. Make the Graph

 a. Go to A1 and B1 to change x and y to appropriate axis labels.

 b. Select the cells A1 through B16 (both columns and the labels should be highlighted).

 c. From the “Insert” tab, select “Chart,” and you are given recommendations. Choose desired look. Press Insert.

 d. You can move the graph and change colors and fonts to desired look.

**Your cell phone company is preparing this month’s billing statements. All customers are charged a flat fee of $20 per month for cell service. In addition, any customer that sends over 300 text messages is charged $0.03 for every message over 300.**

1. What is the Independent variable:

 Dependent variable:

2. Make a table with domain 1 through 400 to show cost

(steps by 50)

4. What should the value be for 300 texts: \_\_\_\_\_\_

5. What should the value be for 301 texts: \_\_\_\_\_\_\_

6. Show computation for 350 texts:

7. Use instructions to enter equations in Google spreadsheet. You will need to enter two different equations based on number of minutes used.

One equation will be in B2 y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The other will be in which cell? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

That equation will be y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Did the spreadsheet data match your answer to numbers 4, 5, and 6?

8. Insert a graph using directions.

Title: Cell Phone Program

Description: This program will calculate the total bill for the cell phone company customers.