**Bio113 Research Dilution Summary**

***Replace all italics text with your own. Keep text not in italics.***

*Lab group (day and color)*, Fall 2020

*Authors (your name first, then other 3 collaborators)*

**Define a serial dilution:**

**Fill in this table based on your calculations**

|  |
| --- |
| Put 2n in the top row and the fold dilution in the bottom row |
| 20 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Series A**

1. What R2 value did you get for the series A graph? Did your value match 0.9871? If not, consult with your lab group to see what you did differently.
2. Insert your graph here. Make sure you learn how to format images so that text wraps around your graph.

**Series B**

1. What R2 value did you get for the series B graph? Did your value match 0.6371? If not, consult with your lab group to see what you did differently.
2. Why did your graph not fit the trendline as well as in series A? If not, look at the data to see where the graph deviates from the trendline and how that could have happened when the pipetting was performed.
3. Insert your graph here. Make sure you learn how to format images so that text wraps around your graph.

**Series C**

1. What R2 value did you get for the series C graph? Did your value match 0.9716? If not, consult with your lab group to see what you did differently.
2. Why did your graph not fit the trendline as well as in series A? If not, look at the data to see where the graph deviates from the trendline and how that could have happened when the pipetting was performed.
3. Insert your graph here. Make sure you learn how to format images so that text wraps around your graph.

**Series D**

1. What sort of line did you expect to see given that only the original 0.002% trypan blue solution was used for every well? Does it make sense to generate a trendline for this graph given the data?
2. Why did your graph not fit the predicted outcome? Speculate what could have happened during the pipetting to generate these data.
3. Insert your graph here. Make sure you learn how to format images so that text wraps around your graph.