- General Notes -

1. Please leave more space between your answers so I can write comments. If there is no space, I can’t give you useful feedback.

2. Please do not just write the answer to the problem. We are more interested in how you think about and justify your approach to a problem than the answer to the problem itself.

- Problem 14 -

1. There were a lot of people that did not show any work for this problem. Solutions consisting of an answer without justification were only worth 3/5 points. Sufficient justification for this problem would have been the following:

\[ b = \frac{1}{k} \]

and we are given

\[ b = \frac{1}{14} \]

where \( k \) is the number of days that the disease lasts. Therefore, the disease lasts 14 days.

- Problem 18 -

1. There were many algebra errors in this and the parts leading up to this problem. However, I did grade based on previous work, so even if the answer was wrong, people generally received 4/5 points if the process was correct based on the work that they did in Problem 17.

2. Units are a thing. Please remember them.

- Problem 21 -

1. In part (b) there were a number of algebraic mistakes. Many people were off by a factor of 10 because they mis-copied \( b = 0.8 \) instead of \( b = 0.08 \). Please be careful with your arithmetic.

2. There were several people that realized that in order for the initial infection rate \( I'(0) \) to be positive, we needed \( S(0) > S_T \) where \( S_T \) is the threshold value. This is true, but we wanted you to go a step further and actually calculate \( S_T \) using the equation \( S_T = b/a \).

If there are any further questions on how things were graded, please feel free to come to my office hours next week.