**Assessment Project**

**Module Separation of Variables**

Patrice Tiffany

Assessment Project:

• Research data on Covid infections N(t) in **one** state in the US for the two month period: April & June 2020. Show the data in a table.

• Write a logistic differential equation that represents the situation in the state. Use N for the number of cases and t for the time in months.

• Using the data given, solve the differential equation from above and use the data to find an expression for the number of Covid cases at time t. Illustrate clearly the method of separation of variables in finding N(t).

• Graph your model vs. the data on one set of axes.

• Discuss the accuracy of your model.

• Can you find a graph of what was originally predicted for that state? Discuss the differences between your model and this one.