MA 109: October 19

Exponential Functions: Equations and Graphs

# Start of Class

## Instructor Information

Name:

Email:

Office Hours:

## Warm-up Questions

# Notes

**Example:** Find the initial value and the growth/decay rate of the exponential function .

**Example:** Write the equation of the exponential function with initial value 6 and goes through the point .

|  |  |
| --- | --- |
| **Town** | **Population** |
| Town A |  |
| Town B |  |
| Town C |  |
| Town D |  |

Example: The population of four towns are modeled by the equations to the right.

1. Which town has the largest initial population?

1. Which towns are growing?
2. Which town is growing the fastest?

**End Behavior of Exponential Functions**

**Example:** Determine the end behavior of .

# End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?