## MA 109: September 12

Linear Functions: Linear Models

## Start of Class

Instructor Information Name:

Email:

Office Hours:

Warm-up Questions

## Notes

**Example:** Write the equation of the vertical line that goes through the point (-7,8).

Scientists have been measuring the populations of different animals in a nearby forest since 2000. Based on their data, the populations are best modeled by the equations given in the table below.

Animal	Population	
Wolf	0.5x + 10	
Lizard	-2x + 137	
Deer	5x + 462	
Squirrel	-x + 532	
Fox	<i>x</i> + 13	

1. What populations are growing?

2. What population is growing the fastest?

3. What animal had the largest population in 2000?

## 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?