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 | $0.5 x+10$ |  |  |
| Lizard | $-2 x+137$ |  |  |
| Deer | $5 x+462$ |  |  |
| Squirrel | $-x+532$ |  |  |
| Fox | $x+13$ |  |  |

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?

