# MA 109: September 11

Linear Functions: Linear Models

## Start of Class

### Instructor Information

**Name:**

**Email:**

**Office Hours:**

### Warm-up Questions

# Notes

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 | $x + 13$ | | |

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?