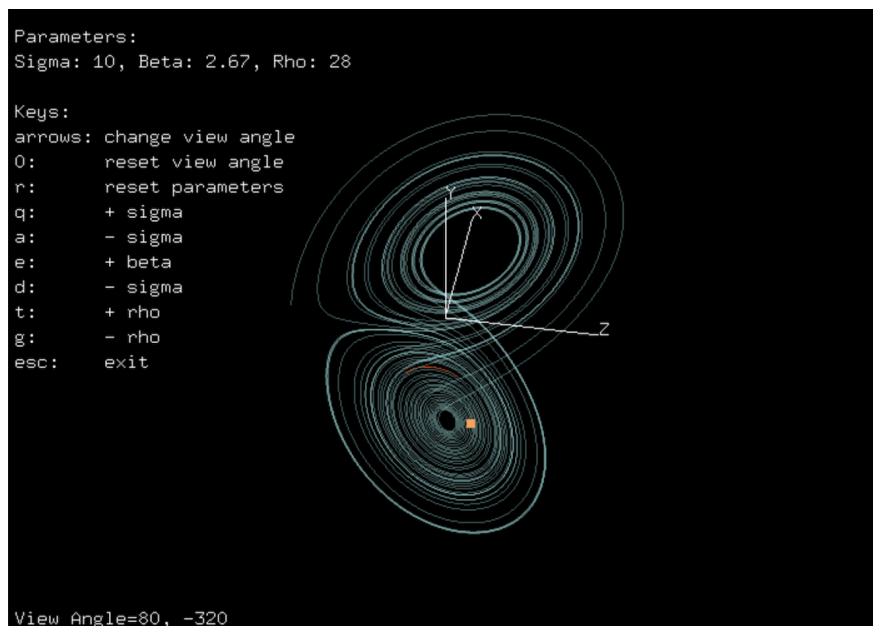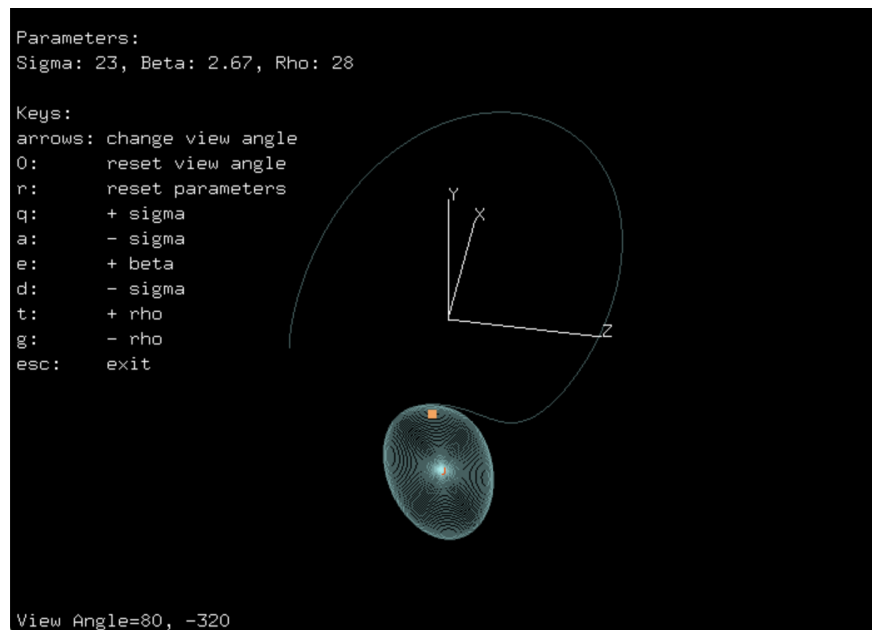# Homework 2: Lorenz Attractor

Dieu My Nguyen

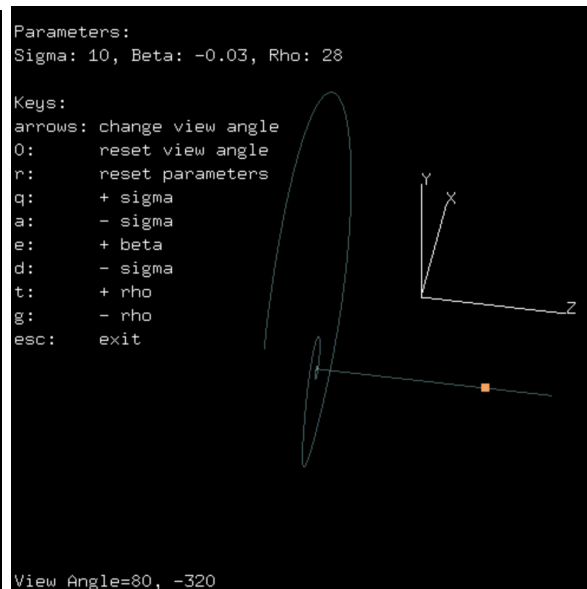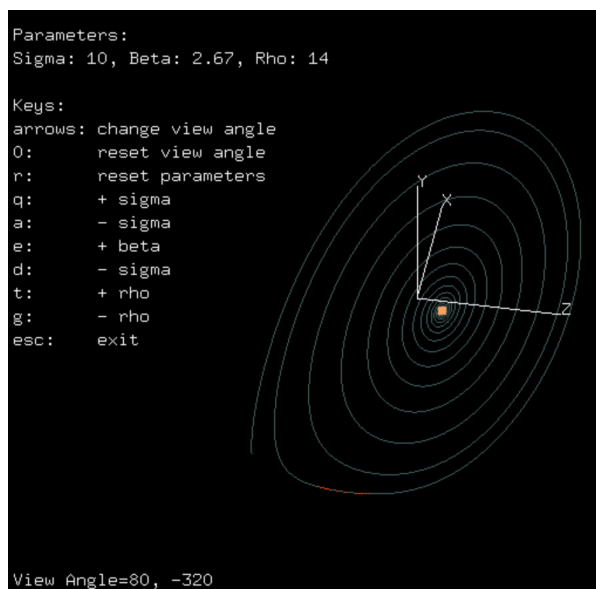## CSCI 5229: Computer Graphics

19 September 2019

We first drew the Lorenz attractor with the default parameters ($\sigma = 10$, $\beta = 2.67$, $\rho = 28$). These parameters yielded the following attractor:

The point that moves around the attractor interestingly displays different speeds: It moves slower as it gets to the center(s) of attraction. Further, the system displays interesting behavior in regards to the number of centers of attractions as we vary the parameters. Keeping β and ρ constant, when σ changes from 22 to 23, we only observe one center of attraction.

Decreasing ρ and decreasing β gives us simpler and simpler attractors:

Time required to complete the assignment.: Approximately 6 hours.