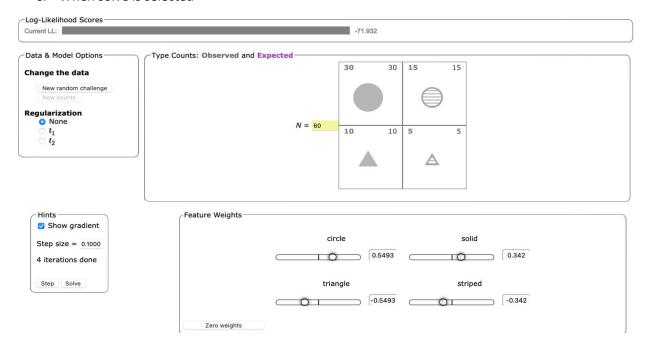
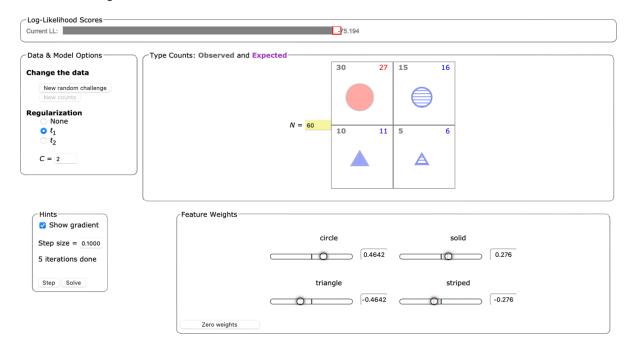
Problem 1

- A. This causes the expected count to stay below the observed for both 'circle' but increase above observed for 'triangle', until about ~1.11 which then reverses the roles of the expected count.
- B. The red bar shows a decrease in the expected count and blue bar represents an increase in the expected count.
- C. When solve is selected

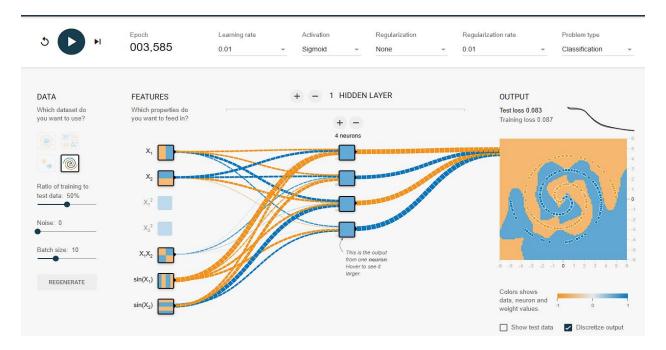


D. When regularization I1 is selected.

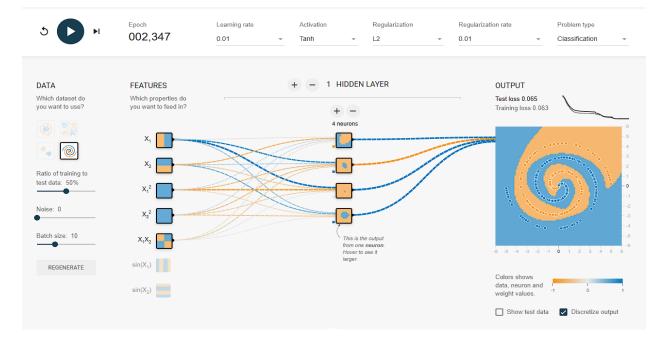


- E. This is due the regularization of the model which helps reduce the over and underfitting of the previous result.
- F. Z ensures that the value we calculate does not exceed 1 meaning, allowing our result to be bounded between 0 and 1.

Problem 2



→ Adding regularization should both lower the number of epochs and training/test loss



Problem 3

A. Kernel Size: 3x3 Stride length: 1

Maxpool window size: 2x2

B. This CNN only has two animals to compare against and so it seems fair to assume it would try to find a features that are similar. Thus, I believe this says that class 'Espresso' contains features that closely resemble those of the features identified in the 'Coyote' and 'Rattlesnake' classes.