Neural Net Project 8: MLPs with Non-sigmoid Activations

In this project, we construct MLP software for three additional activation functions.

1. Find your sigmoidal neural net mapping software from project 4 and make three new copies of it. Using the 1st copy:
   (a) Change the activation functions from sigmoids to sines.
   (b) Change the training algorithm so that it works with sines.
   (c) Call the new program sine.c, using the appropriate extension.

2. Using the 2nd copy of your project 4 software:
   (a) Change the activation functions from sigmoids to squares.
   (b) Change the training algorithm so that it works with squares.
   (c) Call the new program square.c, using the appropriate extension.

3. Using the 3rd copy of your project 4 software:
   (a) Change the activation functions from sigmoids to Gaussian functions.
   (b) Change the training algorithm so that it works with Gaussian functions.
   (c) Call the new program Gauss.c, using the appropriate extension.

4. Compare the performances of sine.c, square.c, and Gauss.c to that of project 4.