Assignment 4

Part A

A. They're all pretty quick. The only one that took noticeably longer than the rest was the spiral case. The confidence seems to be high as the colors are on the darker ends of their spectrums

B. The output was different from the tanh function. The shape is much more defined than the tanh function. There are a lot more defined lines in the shapes around the output. The time was quicker for all the data sets. reLu still struggled a bit with the spiral dataset but was definitely better at handling it.

C. The time seemed to be quicker than in part A. The complexity and accuracy seem to have gone down a bit when compared to the outputs of part A.

D. It seems to be following the pattern of taking less time, but having more fluid and less accurate outputs.

E. The 8 neurons seems to take more time than what I observed in part C and D, but less time than the parameters in part A. The output here is more rigid and defined then the rest of the outputs in parts A, B, and D.