

Problem 1

The answers to the stated questions:

1. **Q:** How many images does the data set contain? (Of how many pixels does each image consists of?)
A: We have 2007 images, with 256 pixels each.
2. **Q:** Does the accuracy converge?
A: Yes, the accuracy converges to 1.
3. **Q:** Which algorithm (Nearest Centroid Classifier or Perceptron) would you prefer for this task?
A: For this task the Perceptron algorithm behaves better.
4. **Q:** Is this enough to reach a final conclusion on which algorithms performs good on this type of data?
A: No! Each data set comes with particularities.

Problem 2

The requested plots:

