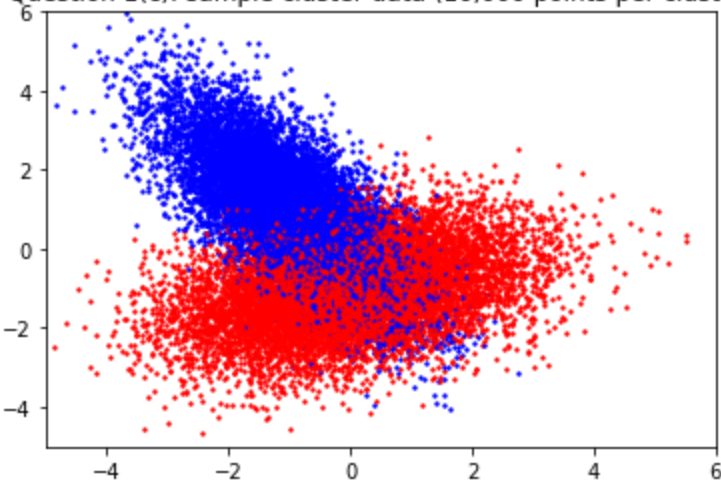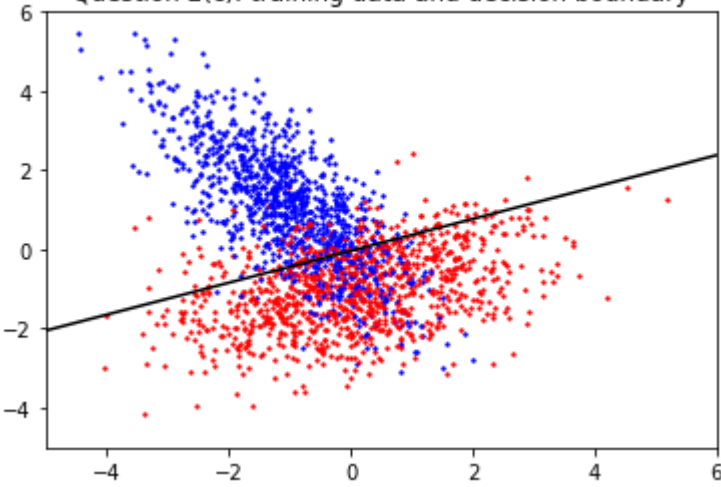Question 1(c): sample cluster data (10,000 points per cluster)
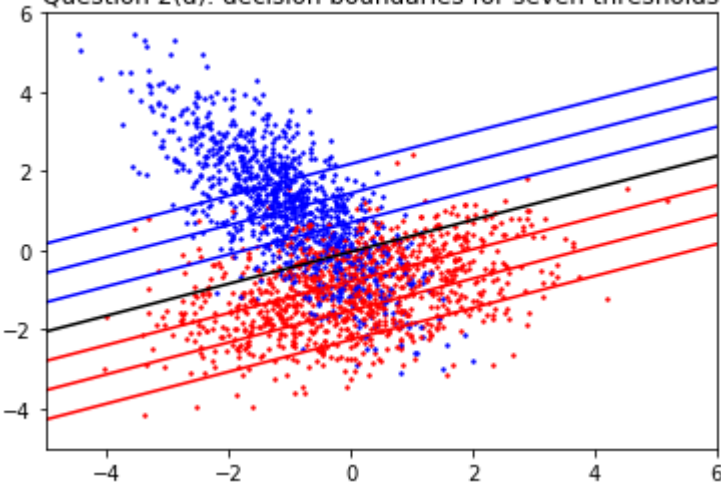
(Figure 1)

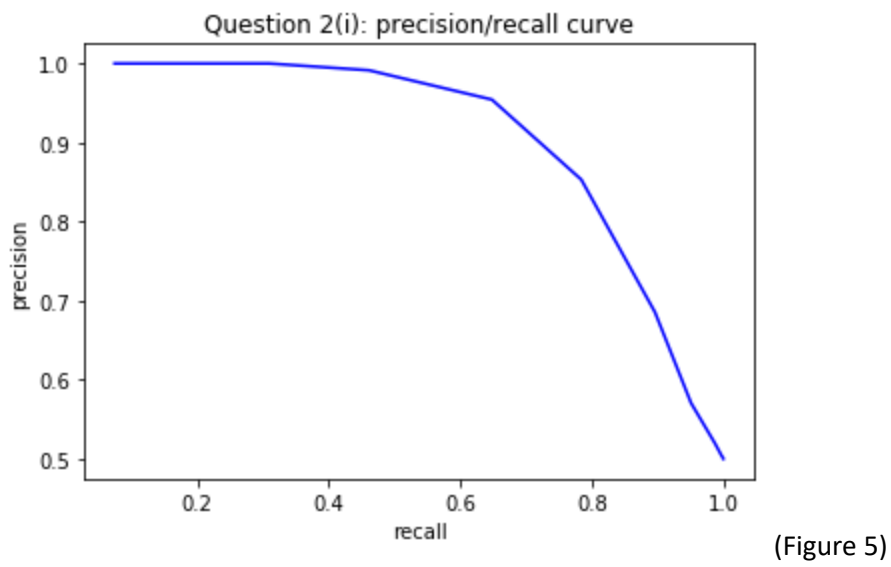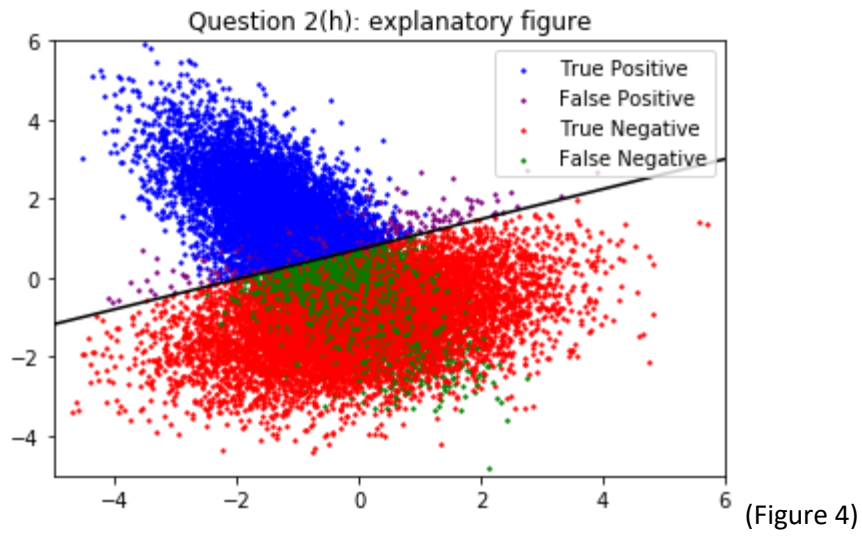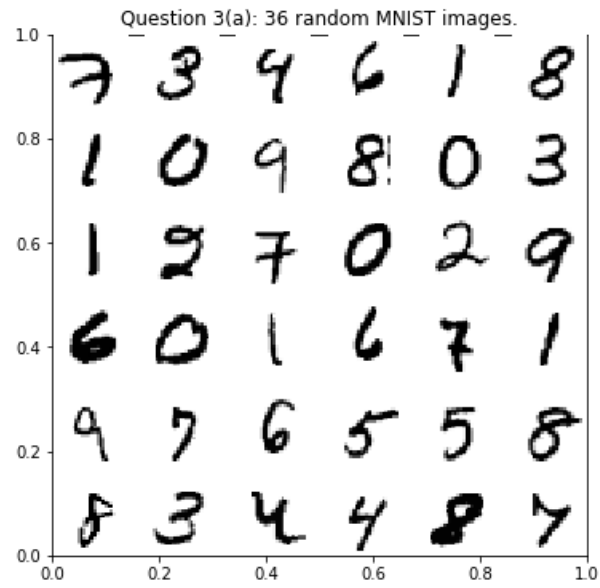Question 2(c): training data and decision boundary

(Figure 2)

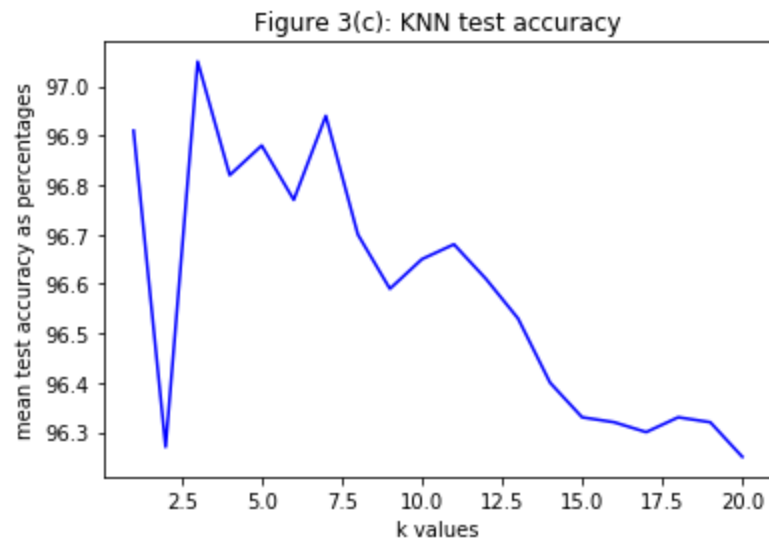Question 2(d): decision boundaries for seven thresholds

(Figure 3)

(Figure 4)

(Figure 5)

Question 3(a): 36 random MNIST images.

(Figure 6)

Figure 3(c): KNN test accuracy

(Figure 7)