## Problem 4(a): See Code in bayes\_Im2221.py

Part 4(b): Confusion Matrix

	Predict class 4	Predict class 9
True Class 4	832	150
True Class 9	143	866

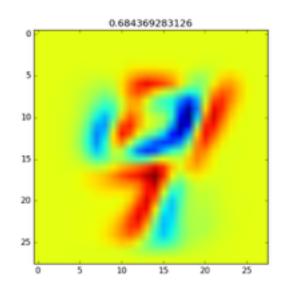
Accuracy: 0.852837769965

Part 4(c): Misclassified Examples

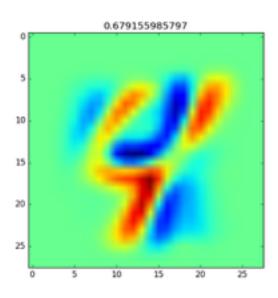
Predicted to be a 9, True class is 4 Probability of 0.689259924453.

0.689259924453

Predicted to be a 9, True class is 4 Probability of 0.684369283126.



Predicted to be a 9, True class is 4 Probability of 0.679155985797.



## Part 4(d): Ambiguous Examples

Predicted to be a 4, True class is 4

Probability of 0.499978328396.

Predicted to be a 4, True class is 4 Probability of 0.499552453091.

Predicted to be a 4, True class is 9 Probability of 0.499503559611.

