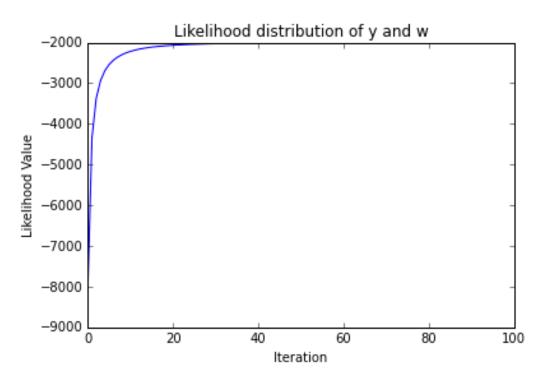
## Problem 2

**a.** See Python code attached.

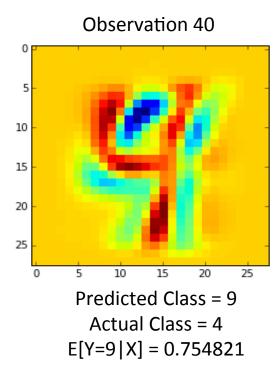
b.

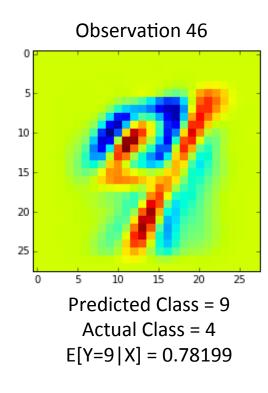


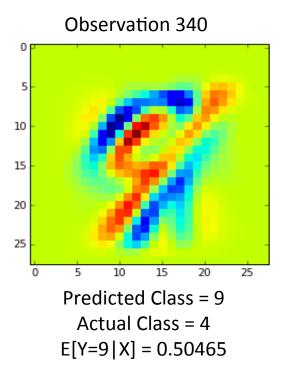
C.

	Actual = 4	Predicted = 9
Predicted = 4	930	52
Predicted = 9	77	932

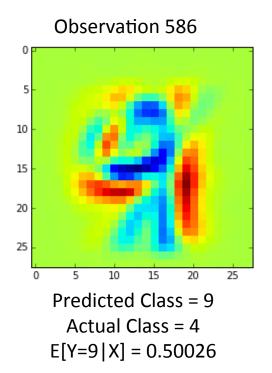
## d. Misclassified digits

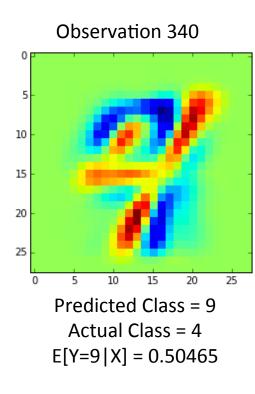


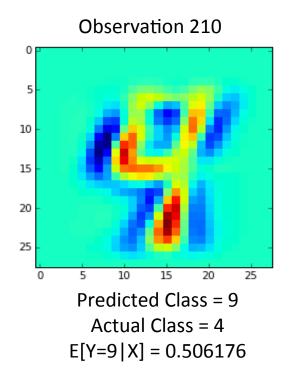




## e. Most ambiguous predictions







## f. Reconstructed w\_t

