Naive-Bayes-Example

Question 1

Part I

Consider the following data set with three Boolean predictive attributes, W, X, Y, and Boolean classification C.

W	X	Y	C
T	T	T	T
T	F	T	F
T	F	F	F
F	T	T	F
F	F	F	T

We now encounter a new example: $W = F$, $X = T$, $Y = F$. How should this example be classified using the Naive Bayes method? Show your computations.

Part II

Typically Naive Bayesian produces an approximate MAP hypothesis. What would be the approximate ML hypothesis?