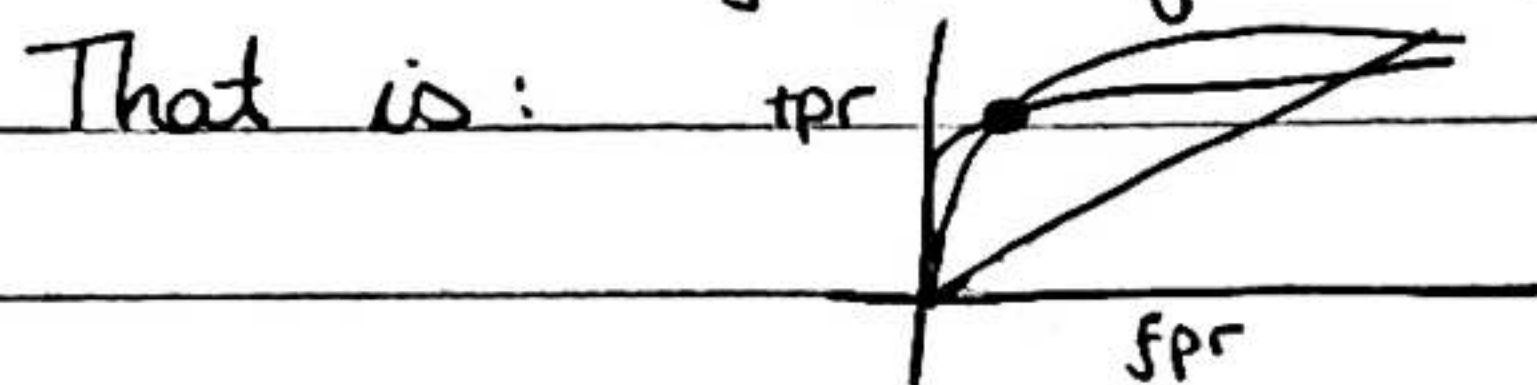2a) Choose c_a, c_b such that the two curves intersect on the second graph of true positive rate vs false positive rate. That is:

b) Take the point where the worse rate is 0.90 for the true positive rate. Then take where the other has the same false positive rate and try to lower the true positive rate to 0.9.

One way to do this is to purposefully choose the wrong answer sometimes. For example, if the ~~true~~ true positive rate is 0.95 and should be 0.9, then $1/19$ of the time when the output should be $+$, change it to $-$. This should be chosen randomly, so that every positive prediction has a $1/19$ chance of becoming negative.