

## COS 511: Foundations of Machine Learning

Hints for HW#1  
PAC Learning

Due:  
February 23, 2006

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- 3a. Start by showing that if a particular hypothesis  $h$  has true error  $\text{err}_D(h)$  bigger than  $\epsilon(h)$ , then the probability that it is consistent with a data set of size  $m$  is at most  $g(h)\delta$ , where  $\epsilon(h)$  is the bound given in the problem.