

## COS 511: Theoretical Machine Learning

Hint on HW#5, problem 1b

Spring, 2019

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Start by using part (a) to show that for every function  $f \in \text{co}(\mathcal{H})$ , there exists a function  $g \in \mathcal{A}_N$  such that, for all examples  $(x, y)$  in both samples  $S$  and  $S'$ ,  $|yf(x) - yg(x)| < \theta/2$ .