

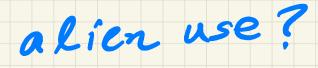
Alien (learner) goal:

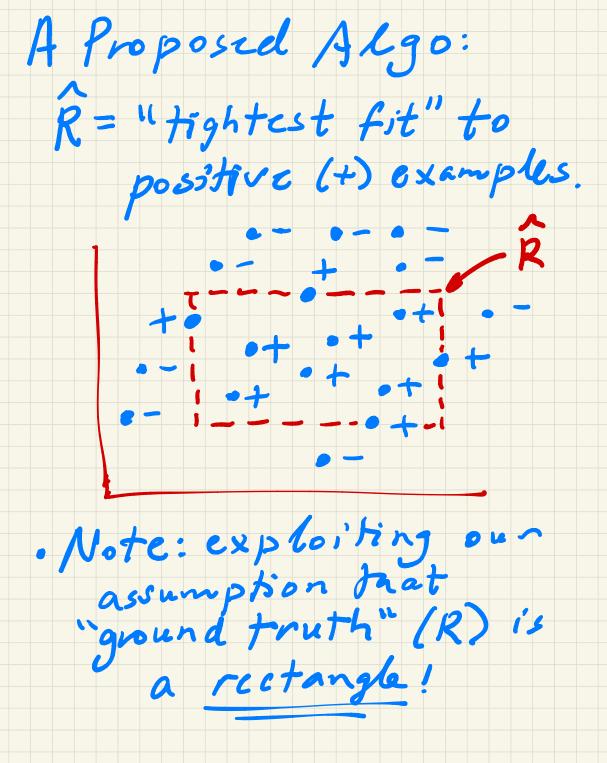
## from data, learn

a "good" hypothesis rectangle R.



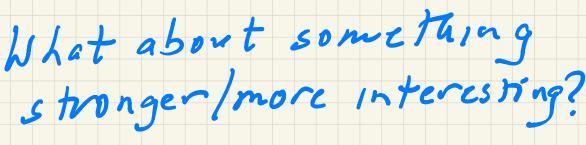






## What can we say about R?

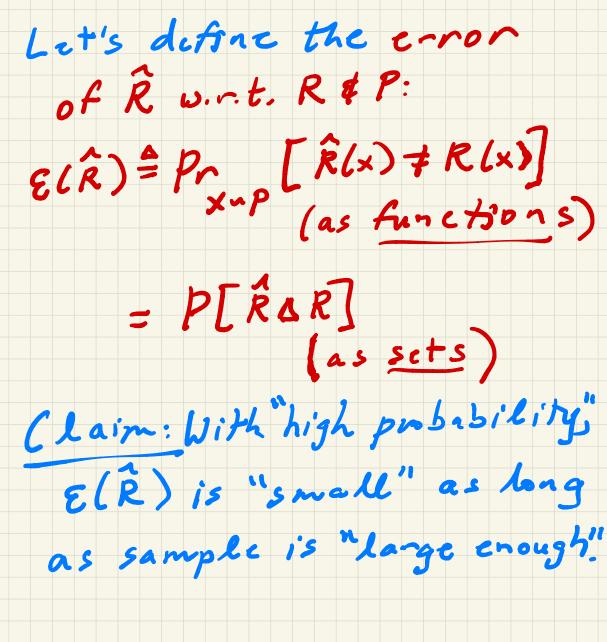
## <u>Claim:</u> Vicwed as sets, $\widehat{R} \subseteq R.$

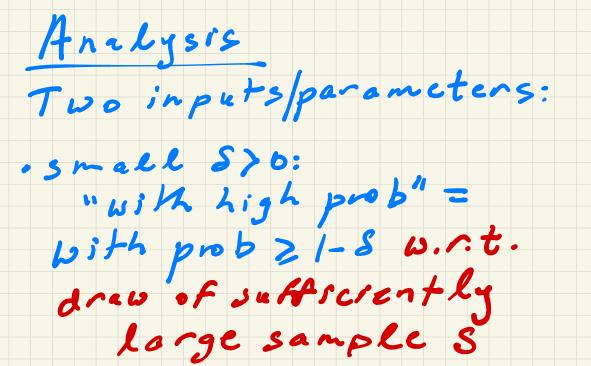


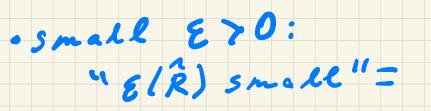




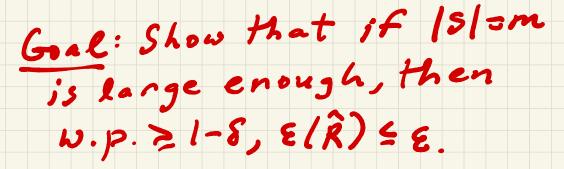


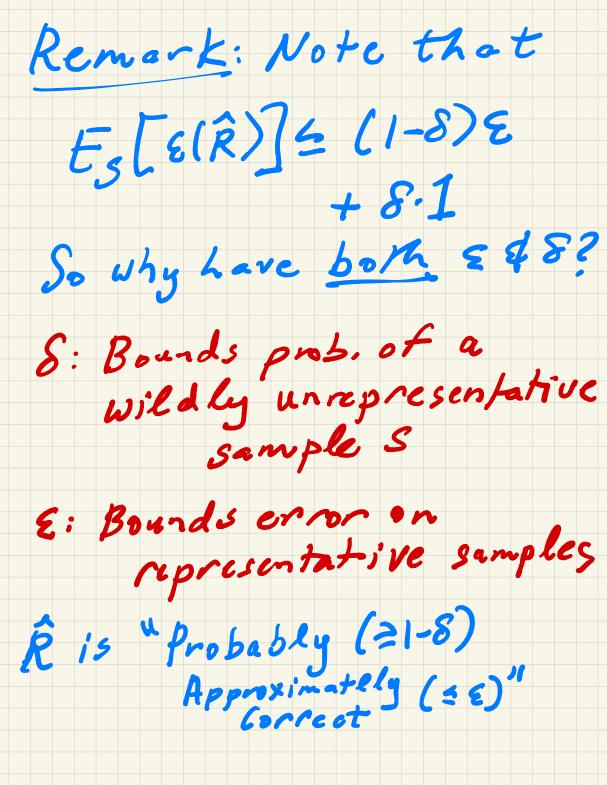


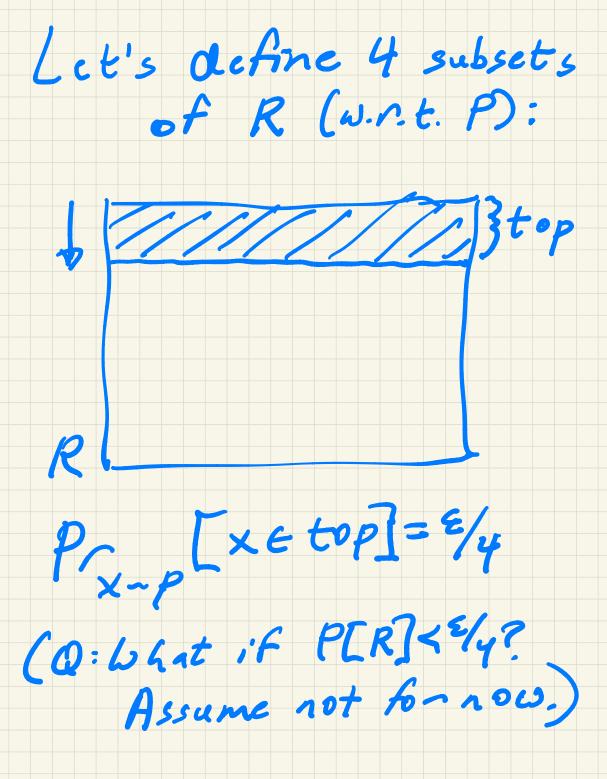


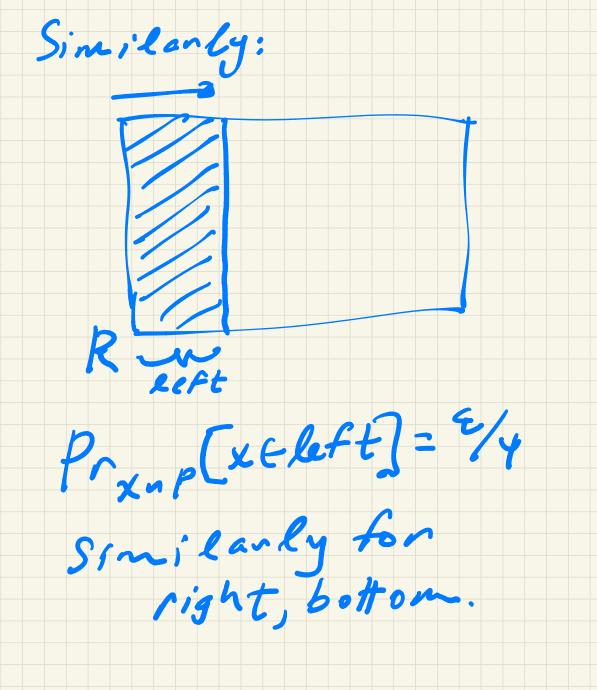


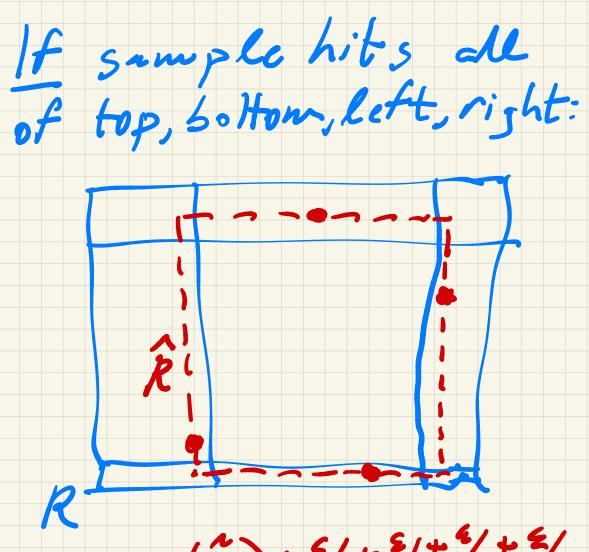
## $\varepsilon(\hat{R}) \leq \varepsilon$





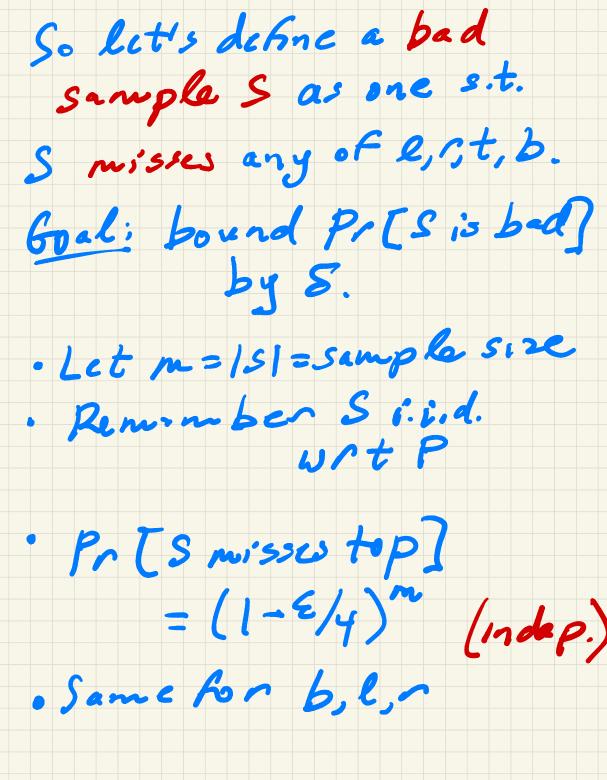




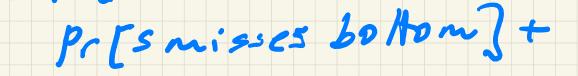


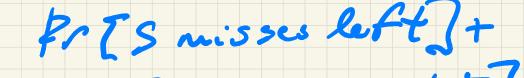
Then E(R)= 5/4+ 5/4+ 6/4+ 5/4

= 2.

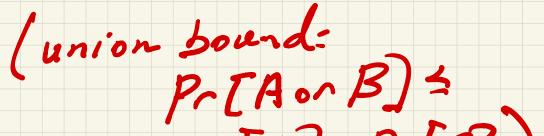


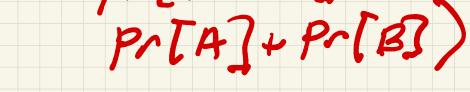


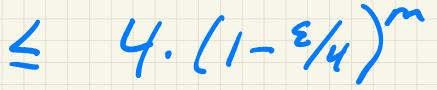


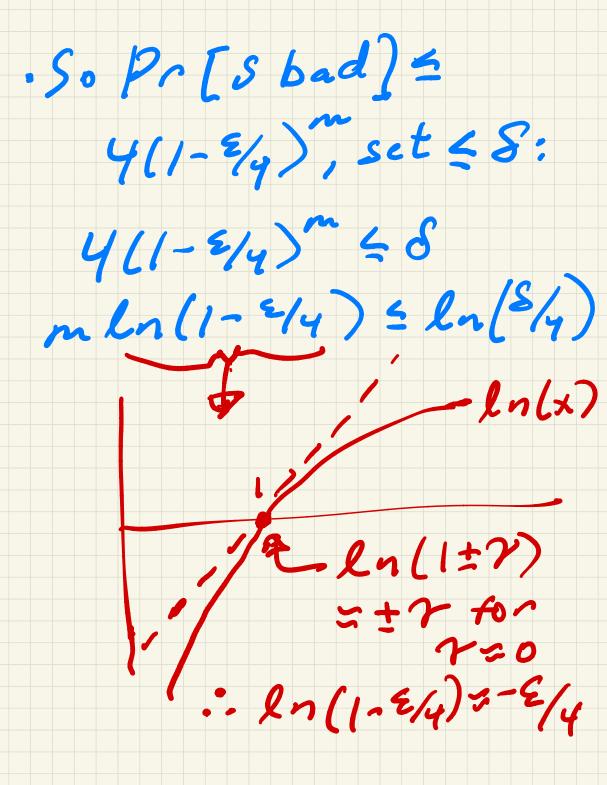


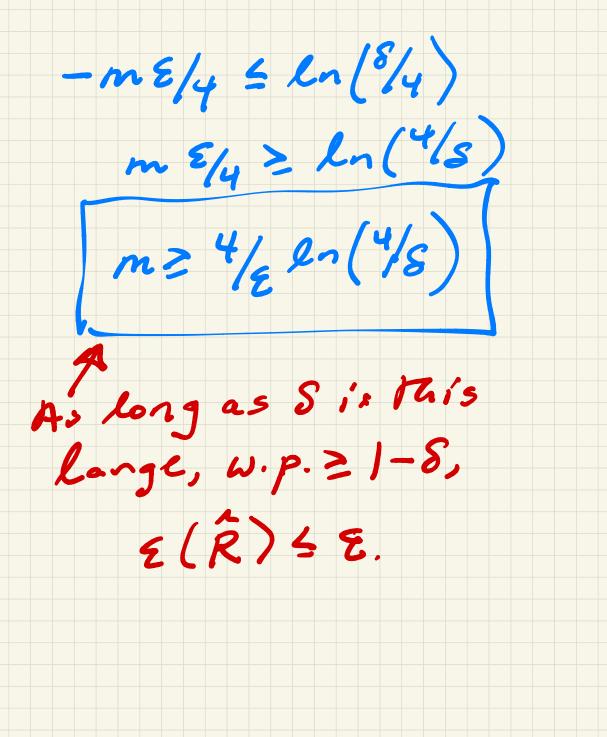












Oh wait... what if e.g. P[R] < E/y?

