By Saner's lemma, for each i=1,..., 2, $S_{\mathcal{H}_{i}}(n) \leq (n+1)^{r}$ $S_{(n)} \leq \sum_{i=1}^{\infty} S_{(n)} \leq 2(n+1)^{V}$ As sell in class, If we find an integer or such that $k(n+1) < 2^n$,
then h is an upper sound for the VC-chinension of 3t. But & (m) < 2° () 1 > 6g. & + Vlog. (n+1) which, by the hint, is implied by n+1> 4V/log2(2V) +2log2(2x) Thus, the VC- him is at most 4 Vlog (2V) + 2 log (28)-1 The second part is similar, using the fact that the shatter coefficient is bounded by (n+1)