h(X) (1, (2, 1) = \(\) if \(\lambda (\frac{1}{2} \times 1)^2 = \(\) otherwise = abside the exister pints

white pints Let A be the algorithm that returns the smallest circle Enclosing all positive examples withe training set. Why is A NOT an ERM? 0 -A is not an ERM Lue to the large probability of it Answer failing outsile of the given training set. - Since the Algorithm returns the smallest circle endows all the Positive examples in the set, it may also inchie portion of them. thus increasing the amount of noise and increasing the possibility to make a mistake, while an algorithm that takes the negative examples into For example, if we take two circles, the smaller one contains all positive examples and a single negative examples and the larger one contains all positive examples without the negative, that way the larger circle will have a smaller loss than the smaller circle, thus his proving the above statement. bonus: The minimal geometric shake is a single tot

1.2 true enor of h: Loth) = Prop [hex) + fex) Empirical error of hover 5: L. (h)= In 21 chex 1/6/5] show that the expected value of Loch over the church of s equals Lock), homely? empirical risk Jef $(l_s(h)) = (l_w + l_w) + (l_w)$ linearity
of exactly value E [[ha) + fa)] = 1 & p [ha) + fa $[h(x) \neq f(x)] = [P(h(x) \neq f(x)]$ sno therisk