HW #2

(1) 2.1 LFD (Learning from data book)
(2) 2.2 LFD
(3) 2.11 LFD
(4) 2.12 LFD
(5) 2.23 LFD
(6) To show that k is a break point for H
- Show a set of k points $x_1, , x_k$ which H can shatter.
- Show H can shatter any set of k points.
- Show a set of k points $x_1, , x_k$ which H cannot shatter.
- Show H cannot shatter any set of k points $x_1, , x_k$.

Select appropriate choice but explain all statements no matter your choice.
(7) Show that the VC dimension of a perceptron in R^d is $d + 1$.
(8) Exercise 2.6 (page 60) L.F.D