

# Homework 9

CS 6243 – Spring 2005  
Tom Bylander, Instructor

assigned April 7, 2005  
due April 14, 2005

1. (50 pts.) Do Exercise 7.3.
2. (50 pts.) Do Exercise 7.5. If you say the VC dimension is  $d$ , show how  $d$  points can be shattered (the hardest cases, not all of them). Hints:
  - (a) Note that the sides of these rectangles are parallel to the axes.
  - (b) Consider how to exclude two points.
  - (c) Consider how to draw sides to exclude points.