

HOMEWORK 6
STA701.01, Statistical Inference
Fall Semester, 2014

Due: Thurs Oct 16th, 2014 at 9:30am EST submitted via email.
Let \mathcal{A} be the space of actions.

- 1** Do exercises 1 to 3 and 5 on Section 2.7, exercises 1 to 10 on Section 2.8.
- 2** Find a counter example on Exercise 4 on Section 2.7 which is NOT on the solution set.
- 3** Let $S_1 = \{x = (x_1, x_2) \in \mathbb{R}^2 \mid 1 \leq x_1 \leq 2, 1 \leq x_2 \leq 2\}$ and $S_2 = \{x = (x_1, x_2) \in \mathbb{R}^2 \mid -1 \leq x_1 \leq 0, -1 \leq x_2 \leq 0\}$. Find a vector $p \in \mathbb{R}^2$ which separates S_1 and S_2 .