Stat/Econ 473 Game Theory

Problem Set 9

Due: Tuesday April 5

From the Text: 20.5–20.8, 20.9–20.13

Notes:

- For Problems 20.5)–20.8) assume that Player 2 is tough with probability ρ and accommodating with probability 1ρ . Also assume that Player 2 knows his type but Player 1 does not.
 - In 20.8 find all possible Bayes–Nash equilibria for all possible values of ρ .
- \bullet For Problems 20.9–20.13 use the following version of diagram 20.3 a) in the case of substitutes

	Н	Μ	L
Η	5,5	0,8	0,6
\mathbf{M}	8,0	4,4	0,6
L	6,0	6,0	3,3

- \bullet For 20.9–20.13 assume that the chance the goods are substitutes is ρ and that Firm 2 knows if they are substitutes, but Firm 1 does not.
- For 20.11–20.12 find all pure strategies where if Firm 2 knows the goods are substitutes they price M. What conditions on ρ are necessary?
- \bullet For 20.13 find all pure strategies where if Firm 2 knows the goods are substitutes they price L. What conditions on ρ are necessary?