Due: Thursday, 19 Sept 2013

Homework #3 – Nash Equilibria
Policy: You can discuss these assignments together. But when it comes to actually doing the problems and putting pencil to paper, make it your own work. Please do not copy or allow someone else to copy your work.

1. For the following two (one-shot) matrix games, determine the Nash Equilibrium (pure and mixed) for both players. Be sure to show your work.

	c	d
a	2, 2	0, 0
b	0, 0	1, 1

	a	b
a	4, 4	0, 3
b	3, 0	2, 2

2. For the two one-shot matrix games above, compare and contrast the NE of the games with the maximin strategies of the games.

3. Determine the Pareto optimal solutions in each of the above games.

4. For the two one-shot matrix games above, state how you would play each game against an unknown associate if you were the row and column players, respectively. Briefly discuss why you would behave as you stated.