

- a) B dom A, L dom R
 b) L dom R, L weak dom C?
 c) X dom Z, $\frac{2}{3}U + \frac{1}{3}D$ dom M

6.1 Determine which strategies are dominated in the following normal-form games.

		2	
		L	R
1	A	3, 3	2, 0
	B	4, 1	8, -1

(a)

		2		
		L	C	R
1	U	5, 9	0, 1	4, 3
	M	3, 2	0, 9	1, 1
	D	2, 8	0, 1	8, 4

(b)

		2			
		W	X	Y	Z
1	U	3, 6	4, 10	5, 0	0, 8
	M	2, 6	3, 3	4, 10	1, 1
	D	1, 5	2, 9	3, 0	4, 6

(c)

5. Represent in the normal form the rock–paper–scissors game (see Exercise 4 of Chapter 2 to refresh your memory) and determine the following best-response sets.

(a) $BR_1(\theta_2)$ for $\theta_2 = (1, 0, 0) = \{R\}$

(b) $BR_1(\theta_2)$ for $\theta_2 = (1/6, 1/3, 1/2) = \{R, S\}$

(c) $BR_1(\theta_2)$ for $\theta_2 = (1/2, 1/4, 1/4) = \{R, S\}$

(d) $BR_1(\theta_2)$ for $\theta_2 = (1/3, 1/3, 1/3) = \{R, P, S\}$

1 \ 2	R	P	S
R	0, 0	-1, 1	1, -1
P	1, -1	0, 0	-1, 1
S	-1, 1	1, -1	0, 0

b) $R = 0 + (-1/3) + 1/2 = -2/6 + 3/6 = 1/6$
 $P = 1/6 + 0 - 1/6 = 0$
 $S = -1/6 + 2/6 + 0 = 1/6$