

Finding Nash Equilibria

Question 1.

		Player 2	
		X	Y
Player 1	A	10 , 10	15 , 5
	B	5 , 15	12 , 12

What is the equilibrium of the above game?

- ☐ A,X
- ☐ B,X
- ☐ A,Y
- ☐ B,Y

Question 2.

		Player 2	
		X	Y
Player 1	A	0 , 0	0 , 1
	B	2 , 0	0 , 0

What are the equilibria of the above game?

- ☐ B,X only
- ☐ A,Y and B,X
- ☐ A,Y; B,X; and B,Y
- ☐ none

Question 3.

		Barney	
		Left	Right
Fred	Up	10 , 10	0 , 10
	Down	10 , 0	10 , 10

What are the equilibria of the above game?

- ☐ Up, Left only
☐ Down, Right only
☐ Up, Left and Down, Right
☐ 10, 10

Question 4.

		Player 2		
		X	Y	Z
Player 1	A	6 , 6	8 , 20	0 , 8
	B	10 , 0	5 , 5	2 , 8
	C	8 , 0	20 , 0	4 , 4

What is the equilibrium of the above game?

- ☐ B, Y
☐ C, Z
☐ A, X
☐ A, Y

Question 5.

		Player 2		
		Rock	Paper	Scissors
Player 1	Rock	0 , 0	-1 , 1	1 , -1
	Paper	1 , -1	0 , 0	-1 , 1

Scissors**-1** , **1****1** , **-1****0** , **0**

How many equilibria (in pure strategies) does the above game have?

- ☐ 9
- ☐ 3
- ☐ 1
- ☐ 0

		Gilmour		
		Lapse	Echoes	Bell
Waters	Wall	40 , 8	30 , 6	50 , 1
	Moon	30 , 6	20 , 9	50 , 1
	Wish	20 , 5	40 , 2	50 , 0

Question 6

Does either player have a strictly dominant strategy?

- ☐ Waters only
- ☐ Gilmour only
- ☐ Both Waters and Gilmour
- ☐ Neither Waters nor Gilmour

Question 7

Does either player have a weakly dominant strategy?

- ☐ Waters only
- ☐ Gilmour only
- ☐ Both Waters and Gilmour
- ☐ Neither Waters nor Gilmour

Question 8

Does either player have a strictly dominated strategy?

- ☐ Waters only
- ☐ Gilmour only
- ☐ Both Waters and Gilmour
- ☐ Neither Waters nor Gilmour

Question 9

Does either player have a weakly dominated strategy?

- ☐ Waters only
- ☐ Gilmour only
- ☐ Both Waters and Gilmour
- ☐ Neither Waters nor Gilmour

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