so that I can tell what you were thinking if you make a mistake. The quiz is worth 50 points. Instructions: This is a 20-minute quiz consisting of short answer questions. Give enough justification

	_
	Consider
	the
]	following
	preference
	system:

Q	В	A	6	
О	V	В	თ	
A	С	В	ယ	
В	Α	С	7	

W - Brotes

(a) Who is the plurality winner?

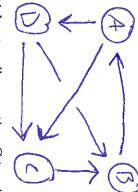
If so, who?

(c) Who is the Borda winner? (b) Is there a Condorcet winner? _

2. Consider the following preference system:

В	С	D	Α	9
О	D	Α	В	2
Α	В	С	D	4
Α	D	В	С	6

(a) Draw the preference graph for these votes:



(b) What ordering of sequential votes allows option C to win? A B First comparison: $\frac{\beta \rightarrow \lambda}{\beta}$ Second comparison: $\frac{\beta \rightarrow \lambda}{\beta}$ Third comparison: $\frac{\beta \rightarrow \lambda}{\beta}$

(c) Select (non–negative) Borda weights so that option D is the winner:

First place: $\frac{10}{100}$ Second place: $\frac{9}{100}$ Third place: Fourth place:

Lots of possible Choices here

Use IESDS on the following matrix to determine the possible equilibria:

15 Preferable to (2,-1)	a) Finally for Player 2 ((2) Column dominates all the lower	2
	(3,0)	e top	column 1,

4. Find the Nash equilibria for the following game:

(A),	1,	-ა,	0,0
1 6,40	3 (8/2)	$2 \mid -16$) $\mid 1,1$
3,1	2,5	001	2,2
-1,-1	1,1	3,3	(4,4)
		1	
	(
	,	5	_
	(_	
	-	S	<u>.</u>

5. When we discussed the game of Chicken in class, we noted that "choosing" to go first by announcing your intention could improve your expected outcome in the game. Circle the game below in which player 1 would like to play first. Why?

