Name: Date: Monday, October 3, 2016

MATH 181 F1 Worksheet: Manipulating Voting Systems

Question 1: Consider the following preference lists.

	Voter 1	Voter 2	Voter 3	Voter 4	Voter 5	Voter 6
1st	A	В	A	E	A	E
2nd	B	C	B	D	B	D
3rd	C	A	C	C	C	C
4th	D	D	D	B	D	B
5th	E	E	E	A	E	A

i. Calculate the winner using the Borda count.

ii. What is the outcome using the Borda count if only Voters 3-6 voted?

Question 2: As Voter 1, can you manipulate the election so Candidate A wins?

	Voter 1	Voter 2	Voter 3	Voter 4	Voter 5	Voter 6
1st		В	A	E	A	E
2nd		C	B	D	B	D
3rd		A	C	C	C	C
4th		D	D	B	D	B
5th		E	E	A	E	A