Name: Date: Wednesday, September 28, 2016

MATH 181 F1 Worksheet: Introduction to Voting Theory

Question 1:
Focusing only on candidates A and B, which is the winner using majority rule?

	Voter 1	Voter 2	Voter 3
1st	A	B	C
2nd	B	C	A
3rd	C	A	B

Question 2:
Who is the winner using Condorcet's method?

	Voter 1	Voter 2	Voter 3
1st	A	B	C
2nd	B	C	A
3rd	C	A	B

Question 3: Consider the following preference lists.

	Voter 1	Voter 2	Voter 3	Voter 4	Voter 5	Voter 6	Voter 7
1st	C	C	E	E	C	D	A
2nd	E	E	B	B	A	E	E
3rd	D	D	D	D	D	A	C
4th	A	A	C	C	E	C	D
5th	B	B	A	A	B	B	B

Calculate the winner using:

1. plurality voting,

2. the Borda count,

3. and the Hare system.