MA 111, Fairness Criteria, September 12, 2012

For the fill in the blanks, answer with "Majority Criterion", "Condorcet Criterion", "Monotonicity", "IIA", or "None"

Problem 1. An election is held. Candidate A is the majority candidate in the election, but a different candidate wins the election. The outcome of this election violates which one of the fairness criteria?

Which of the following voting methods might have been used in the above election? (Circle all that apply)

Plurality Borda Count Pairwise Comparison Method

Plurality with Elimination None of the above

Problem 2. An election is held. A is the winner of the election. Shortly after the election, it is discovered that candidate A had a criminal record, and therefore was not illegible to be in the election. Candidate A is eliminated from all of the ballots and the ballots are counted again. In the recount, candidate C is declared the winner. The outcome of this election violates which one of the fairness criteria?

Which of the following voting methods might have been used in the above election? (Circle all that apply)

Plurality Borda Count Pairwise Comparison Method

Plurality with Elimination None of the above

Problem 3. An election is held. Candidate A is the plurality candidate in the election, but a different candidate wins the election. The outcome of this election violates which one of the fairness criteria?

Which of the following voting methods might have been used in the above election? (Circle all that apply)

Plurality Borda Count Pairwise Comparison Method

Plurality with Elimination None of the above

Problem 4. An election is held. Candidate C is the Condorcet candidate in the election, but a different candidate wins the election. The outcome of this election violates which one of the fairness criteria?

Which of the following voting methods might have been used in the above election? (Circle all that apply)

Plurality Borda Count Pairwise Comparison Method

Plurality with Elimination None of the above

Which of the following voting methods might have been used in the above election? (Circle all that apply)

Plurality Borda Count Pairwise Comparison Method

Plurality with Elimination None of the above

