Math 111 Contemporary Mathematics	Name:	
Fall 2015		Voting Day 8
Lecturer: Dr. Paullin		

Answer the following with "Majority Criterion", "Condorcet Criterion", "Monotonicity Criterion", or "None".

- (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?
- (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?
- (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?
- (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?
- (5) An election is held. Shortly before the election, a poll is conducted and it is forecasted that candidate A will win the election. A few voters, who originally favored candidate A, decide to change their votes to favor B. When the official votes are cast, A ends up losing the election. The outcome of this election violates which one of the fairness criteria?

- (6) An election is held. Candidate A is the majority candidate in the election, and A wins the election. The outcome of this election violates which one of the fairness criteria?
- (7) An election is held. Candidate C is the Condorcet candidate in the election and C wins the election. The outcome of this election violates which one of the fairness criteria?
- (8) An election is held. Shortly before the election, a poll is conducted and it is forecasted that candidate A will win the election. A few voters, who originally favored candidate B, decide to change their votes to favor A. When the official votes are cast, A ends up losing the election. The outcome of this election violates which one of the fairness criteria?
- (9) An election is held. Shortly before the election, a poll is conducted and it is forecasted that candidate A will win the election. A few voters, who originally favored candidate B, decide to change their votes to favor A. When the official votes are cast, A ends up winning the election. The outcome of this election violates which one of the fairness criteria?