

Homework #6

Deadline: Wednesday, 7 December 2011, 11:00
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Question 1 (10 marks)

For this question, we restrict attention to judgement aggregation problems with the agenda $\{p, \neg p, q, \neg q, p \wedge q, \neg(p \wedge q)\}$. We know that there exists no judgement aggregation procedure for this agenda that is consistent, complete, anonymous, neutral, and independent.

- (a) Show that the $2/3$ -supermajority rule (which accepts a proposition from the agenda if and only if *strictly* more than $2/3$ of the individuals accept it) satisfies all of these requirements, except for completeness.
- (b) Show that this agenda fails to be safe for all uniform quota rules with a quota of less than $2/3$.