

(2) Consider this preference schedule:

$\times 31$	$\times 20$	$\times 10$	$\times 18$	$\times 40$
<i>A</i>	<i>X</i>	<i>B</i>	<i>B</i>	<i>M</i>
<i>B</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>A</i>
<i>X</i>	<i>M</i>	<i>X</i>	<i>M</i>	<i>B</i>
<i>M</i>	<i>A</i>	<i>M</i>	<i>A</i>	<i>O</i>
<i>O</i>	<i>B</i>	<i>A</i>	<i>X</i>	<i>X</i>

(a) Starting with the original election, give a new preference schedule in which exactly 3 voters make moves favorable to *A*.

(b) Starting with the original election, give a new preference schedule in which exactly 3 voters make moves neutral to *B*.

(3) Here are our election criteria so far: one person one vote, independence of candidate names, majority-fair, Condorcet-fair, unanimity-fair, Smith-fair, no losing spoilers, no weak spoilers, monotonic, strongly monotonic. Here are the last three we're going to discuss in our treatment of voting.

- a system is called *Pareto-efficient* if it satisfies the following: *if X is ranked first by every voter, then $\mathcal{W} = \{X\}$;*
- a system is called *two-way-fair* if it satisfies the following: *if an election has exactly two candidates, A and B , and A gets more first-place votes, then $\mathcal{W} = \{A\}$;*
- a system is called *strategy-proof* if it satisfies the following: *it is impossible for a voter with one set of preferences to get a better outcome by voting differently than their preferences.*

Here's the question: sort all 13 of the criteria according to importance, as (1) essential; (2) desirable; (3) reasonable; or (4) whatever. (The fourth category is if you really don't think the criterion is important at all.) Your answers are totally up to you, but choose three out of the thirteen to explain your reasoning for.

For example: In my opinion, Pareto-efficiency is essential. Any system that doesn't make a unanimous first-place choice into the sole winner seems ridiculous—that's the best possible showing for a candidate! If X didn't win under those circumstances, the election seems rigged against them.

ESSENTIAL

DESIRABLE

REASONABLE

WHATEVER!