

## Zero-Sum Games: Practice (2019)

Prepared by:

Joseph Malkevitch  
Mathematics Department  
York College (CUNY)  
Jamaica, NY 11451

email:

[malkevitch@york.cuny.edu](mailto:malkevitch@york.cuny.edu)

web page:

<http://york.cuny.edu>

1. a. Determine if you are able to the value of the zero-sum games below, with payoffs from Row's point of view. If you need to, find the optimal mixed strategy for each player.
- b. For each of the players determine their best/worst actions.

	Column I	Column II	Column III
Row 1	2	-2	-3
Row 2	-3	7	4
Row 3	-1	0	-5

	Column I	Column II	Column III	Column IV
Row 1	1	0	-1	-2
Row 2	3	2	0	-1
Row 3	-3	-4	4	3
Row 4	-7	-6	3	1