Math576 Combinatorial Game Theory
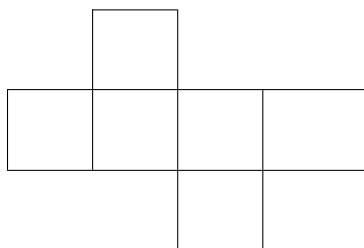## Homework 5
due midnight of Friday, Nov. 20, 2020

Submission method: Your answers to Homework 5 must be converted into a single pdf file. Then login to Blackboard. Click on assignments/homework5. Upload your answers. You can try to upload twice. Only last version will be graded.

1. Who wins the following games?

   (a) $\{2|-1\} + \{2|0\} + \{-2|-3\} + *$

   (b) $\{*|-1\} + \{1|\downarrow\} + *$

   (c) $\pm 1 + +_2 + \uparrow$

   (d) $-_2 + +_1 + *$

2. Find the values of the following domineering game.

3. Find the game value of the following Toads-and-Frogs game:

4. For the game of seating Boys and Girls, find the game values for $L7L$, $L7R$, and $R7R$. For a round table of 8 seats, who will the game?

5. Find the game value for the following green Hackenbush game.