

# Math576 Combinatorial Game Theory

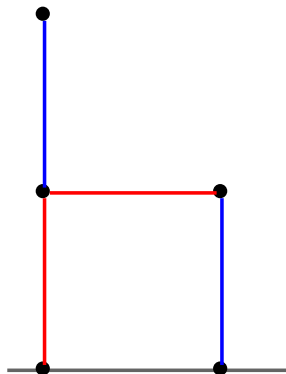
## Homework 1

assigned Jan. 24, 2008; due next Thursday lecture

1. State the simplicity rule. Use it to find the following game values:

(a)  $\{3 \mid 5\frac{1}{2}\}$       (b)  $\{-1 \mid -\frac{1}{4}\}$       (b)  $\{0 \mid \frac{3}{4}\}$       (b)  $\{1 \mid 3\frac{1}{2}\}$

2. Find the values of the following Hackenbush game.



3. Find the value of the following ski-jump game.

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