Problem 1C(b), a solution in pictures (by Gregory Igusa)
Claim 1

A drop followed by a jump can be replaced by a jump followed by a drop.

Consider the case-by-case analysis, subject to the affected areas and the commute when applicable.
Claim 2. The end result of a sequence of drops is independent of the choice of drops.
(This shows that the picture on the previous page is impossible and finishes the proof.)

Proof by induction on the number $N$ of points in the initial state. This can be easily checked if $N \leq 4$. For $N > 4$, it suffices to show that results of two different drops can be dropped further to the same state:

(a) $\frac{xyRRz}{xy'z} \Rightarrow xy'Bz \Rightarrow xy'z$ is ok because of $\frac{xRBz}{xBBz'}$ and $\frac{xBBz}{x'RBz'}$

(b) $\frac{xRBBy}{x'RBy} \Rightarrow x'BBy \Rightarrow x'By$

(c) $\frac{xBBBy}{x'RRy} \Rightarrow x'Ry \Rightarrow xBy$

(d) $\frac{xBBBBy}{x'BRRy} \Rightarrow x'BBy \Rightarrow x'BBy$