Global vMVA Relations

August-14-10
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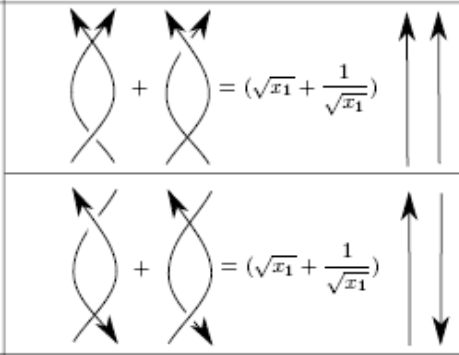
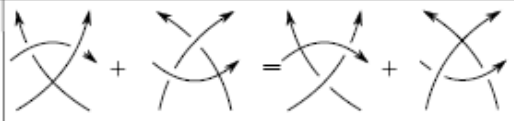
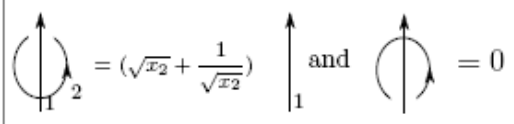
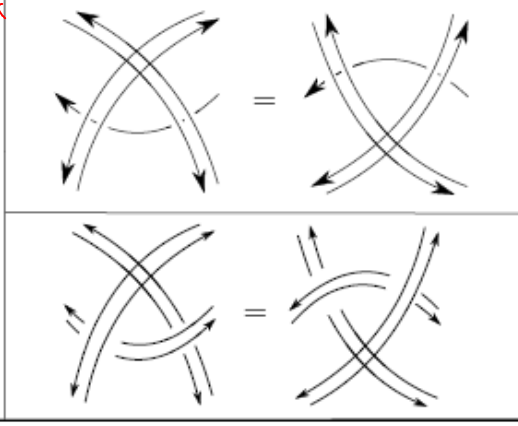
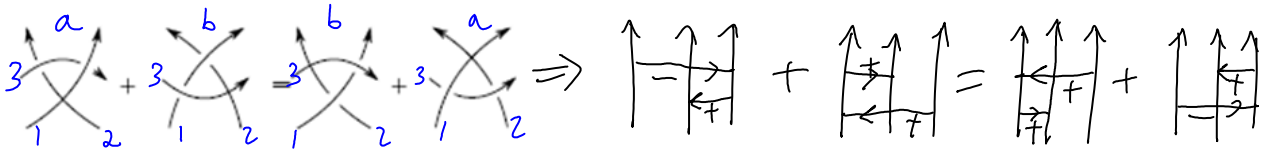
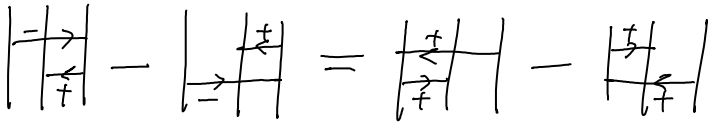
From Jana Archibald's thesis, http://www.math.toronto.edu/jfa/jana_thesis.pdf, page 55:

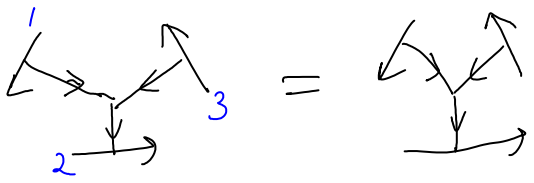
Relations on Virtual Knots and Links.

Welded Knots Our proof p. 70		The MVA is a welded knot invariant.
Our proof p. 70		These two relations are virtual versions of Conway's two second identities.
See below! Our proof p. 71		A virtual version of Conway's third identity.
Our proof p. 71		Versions of J. Murakami's Fifth Axiom for virtual knots.
Virtual N-S Doubled Deltas Our proof p. 71		Parallel strands must have the same label. Two versions of the N-S doubled delta move for virtual knots.



or better,





at arrow diagram level. (deg 2)

(Is there anything more at higher degrees?

In degree 3: