Siddarth's quandle

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8:33 AM

$Q=\{1,2,3\}$ $\quad 2\triangleright 3=1$, $3\triangleright 2=3$

$(a\triangleright b)\triangleright c=(a\triangleright c)\triangleright(b\triangleright c)$

if $a=1$; Follows from the unit axioms.

$b=1$; -11-

$c=1$; -11-

So we only need to check this for $a,b,c\in\{2,3\}$.

222 ✓ no inverses!

223 $1=1$

232 $1=1$

233 $1=1$

322 $3=3$

323 $3=3$

332 $3=3$

333 $3=3$