

$$a^{\neg}b = b^{-\neg}a b^{\neg}$$

$$a^{b^{\neg}}$$

$$(a^{\neg}b)^{\neg}c = c^{-\neg}b^{-\neg}a b^{\neg}c^{\neg}$$

$$a^{b^{\neg}c^{\neg}}$$

$$(a^{\neg}c)^{\neg}(b^{\neg}c) = (c^{-\neg}a c^{\neg})^{\neg}(c^{-\neg}b c^{\neg}) =$$

$$a c^{\neg}(b^{\neg})^{\neg} \quad \Bigg| \quad = c^{-\neg}b^{-\neg}c^{\neg}c^{-\neg}a c^{\neg}c^{-\neg}b^{\neg}c^{\neg}$$

$$= c^{-\neg}b^{-\neg}a b^{\neg}c^{\neg}$$


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$$(a^{\neg}b)^{\neg}c = (a^{\neg}c)^{\neg}(b^{\neg}c) = (a^{\neg}(b^{\neg}c))^{\neg}(c^{\neg}(b^{\neg}c))$$

$$a^{bc} = a^{cb}$$


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Q. In a free quandle, are there any relations between rainbow trees (trees w/ no repeating leaves)?

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Q. Is there an interesting notion of "a family of groups"?