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THE GENERAL LAW OF QUADRATIC RECIPROcity

If $(-1/b_1 b_2) = 1$, then

$$(a/b_1 b_2) = 1,$$

$$(-a/b_1 b_2) = 1,$$

$$(a/-b_1 b_2) = (a/-1),$$

$$(-a/-b_1 b_2) = -(a/-1);$$

If $(-1/b_1 b_2) = -1$, then

$$(a/b_1 b_2) = (-1/a),$$

$$(-a/b_1 b_2) = -(-1/a),$$

$$(a/-b_1 b_2) = (a/-1)(-1/a),$$

$$(-a/-b_1 b_2) = (a/-1)(-1/a).$$

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