

axioms* [axioms]

property	equality	inequality

algebraic properties* [axioms]

properties of equality and inequality (2)

property	equality	inequality
multiplication	$\text{if } a = b, \text{ then } ac = bc$	$\text{if } a < b \text{ and } c > 0, \text{ then } ac < bc$ $\text{if } a < b \text{ and } c < 0, \text{ then } ac > bc$ $\text{if } a > b \text{ and } c > 0, \text{ then } ac > bc$ $\text{if } a > b \text{ and } c < 0, \text{ then } ac < bc$
division	$\text{If } a = b \text{ and } c \neq 0, \text{ then } a/c = b/c$	$\text{if } a < b \text{ and } c > 0, \text{ then } a/c < b/c$ $\text{if } a < b \text{ and } c < 0, \text{ then } a/c > b/c$ $\text{if } a > b \text{ and } c > 0, \text{ then } a/c > b/c$ $\text{if } a > b \text{ and } c < 0, \text{ then } a/c < b/c$
substitution	$\text{if } a = b, \text{ then } b \text{ can be substituted for } a \text{ in any equation or inequality}$	

*given a, b, and c are real numbers

fractions (or pizza math)

addition and subtraction: Least Common Denominator (LCD)