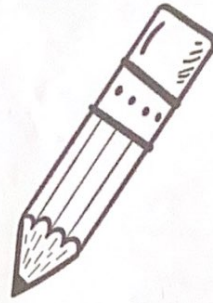


property of equality



property of INequality

If $a=b$,
then $a+c=b+c$

Addition

If $a>b$
then $a+c>b+c$

If $a=b$,
then $a-c=b-c$

Subtraction

If $a > b$
then $a-c > b-c$

If $a=b$,
then $a*c=b*c$

Multiplication

If $a > b$ & $c > 0$
then $ac > bc$

If $a > b$ & $c \neq 0$
then $\frac{a}{c} = \frac{b}{c}$

Division

If $a > b$ & $c > 0$
then $\frac{a}{c} > \frac{b}{c}$

If $a = b$, then a can
substitute b in any
expression

Substitution

If $a = b$, then a can
substitute b in any
inequality

If $a = b$ & $b = c$
then $a = c$

Transitive

If $a > b$ & $b > c$
then $a > c$

Whole is greater than its parts property

If $c = a + b$, and $b > 0$, then $c > a$.