

INDEX FOR THE REAL NUMBERS
AND NOT NECESSARILY FOR OTHER
TYPES OF NUMBERS.

Each symbol in the expressions are real numbers, variables, or constants.

Please remember that integers and rationals are particular kinds of real numbers, so all of the properties below also apply to them.

1. Closure for operations

(1) Addition

- (a) Associativity: $(a + b) + c = a + (b + c)$
- (b) Commutativity: $a + b = b + a$
- (c) Identity element: $a + 0 = 0 + a = a$
- (d) Inverse: For each a , there is a unique opposing number $-a$ such that

$$a + (-a) = (-a) + a = 0$$

(2) Multiplication

- (a) Distributive: $a(b + c) = ab + ac$

(3) Multiplicativity

- (a) Associativity: $(abc) = a(bc)$
- (b) Commutativity: $ab = ba$
- (c) Identity element: $a1 = 1a = a$
- (d) Inverse: For each $a \neq 0$, there is a corresponding number a^{-1} or $1/a$ such that

$$aa^{-1} = a^{-1}a = 1$$

- (e) $a \neq 0$ implies $a^{-1} \neq 0$

(4) Division

- (a) Distributive: $a/b + c/b = (a + c)/b$

(5) Distributivity

- (a) $a(b + c) = ab + ac$

2. Closure for inequalities

- (1) (a) If $a < b$, then $a + c < b + c$
- (b) If $a < b$, then $ac < bc$ if $c > 0$
- (c) If $a < b$, then $ac > bc$ if $c < 0$
- (d) If $a < b$ and $c < d$, then $a + c < b + d$
- (e) In general, if $a < b$, then to say something about ac or bc from any inequality such as $c < d$.

Warning: If $a < b$, it is not necessarily true that $a < c$.

3. Closure for inequalities

- (1) (a) Given two numbers a and b , exactly one of the following holds:
 - (i) $a < b$
 - (ii) $a = b$
 - (iii) $a > b$
- (b) $a < b$ is the same as $b < a$
- (c) If $a < b$, then $a + c < b + c$
- (d) If $a < b$, then $ac < bc$ if $c > 0$
- (e) If $a < b$ and $c < d$, then $a + c < b + d$

4. Integral exponents

- (1) (a) Definition of powers:

$$a^0 = 1, a^1 = a, a^2 = aa, a^3 = aaa, \dots$$

- (b) $a^n = 10^n$ is a^2 is aa is a^3
- (c) $a^n = 10^n$ is a^2 is aa is a^3
- (d) Commutative: given $a, b \neq 0$, then

$$a^n b^m = a^m a^{n-m} = a^{n-m} a^m = \left(\frac{a}{b}\right)^{n-m} b^m$$

- (e) Binomial series: If a is a real number, then

$$(a + b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k,$$

where

$$\binom{n}{k} = \frac{n!}{k!(n-k)!} = \frac{n(n-1)\dots(n-k+1)}{k!}$$

Remember that

$$0! = 1 \text{ and } n! = n(n-1)\dots 1$$

5. The binomial theorem

- (1) The binomial theorem for real numbers a and b is given by:

$$(a + b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k,$$

where

$$\binom{n}{k} = \begin{cases} \frac{n!}{k!(n-k)!} & \text{if } 0 \leq k \leq n \\ 0 & \text{if } k < 0 \text{ or } k > n \end{cases}$$

- (2) Binomial expansion:

$$(a + b)^2 = a^2 + 2ab + b^2$$

- (3) Scaling:

$$(ca)^n = c^n a^n$$

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