

DEFINITION FOR THE REAL NUMBERS
WHICH DO NOT NECESSARILY INCLUDE OTHER
TYPES OF NUMBERS.

Each symbol in the expressions may stand for real numbers, complex, or formal.

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 opposite number $-a$ such that

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

(2) Multiplication

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

(3) Multiplicativity

- (a) Associativity: $(ab)c = a(bc)$
- (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: $a(b/c) = (ab)/c$

(5) Distributivity

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

2. Closure for exponentiation

- (1) (a) If $a \neq 0$, there is a unique a^b
- (b) If $a \neq 0$, there is a unique a^{-b}
- (c) If $a \neq 0$, there is $a^0 = 1$
- (d) If $a \neq 0$ and $a \neq 1$, there is a unique b such that $a^b = a$. This number, if $a \neq 0$, there is any formal that contains a , from any algebraic rule in any \mathcal{A} .

Warning: If $a = -1$, b is not necessarily true that $a^b = 1/a^{-b}$.

3. Closure for exponentiation

- (1) (a) Given two numbers a and b , exactly one of the following holds:
 - (i) $a > b$
 - (ii) $a = b$
 - (iii) $a < b$
- (b) $a > b$ for the relation $a > b$ if:
 - (i) If $a > 0$, then $a - b > 0$
 - (ii) If $a < 0$, then $a - b < 0$
 - (iii) If $a > 0$ and $a < 0$, then $a > 0$

4. Integral exponents

- (1) (a) Definition of powers:

$$a^0 = 1 \quad a^1 = a \quad a^2 = aa \quad \dots \quad a^n = a^{n-1}a$$

- (b) $a^n = 0$ if $a = 0$ or $a^2 = 0$ and $n > 0$
- (c) $a^n = 0$ if $a = 0$ and $n < 0$
- (d) Commute: given $a, b \neq 0$, then

$$a^n b^m = a^m b^n = (a^m)^n = (a^n)^m$$

- (e) Binomial: given a, b in a commutative ring, then

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

where

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

Remember that

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

5. The binomial theorem

- (1) The binomial theorem for real numbers a and b is equal to:

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

where

$$\binom{n}{k} = \begin{cases} 1 & \text{if } k = 0 \\ \dots & \text{if } 0 < k < n \\ \dots & \text{if } k = n \end{cases}$$

- (2) Strongly multiplicative

$$(a + b)^n (a + b)^m = (a + b)^{n+m}$$

- (3) Scaling

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

Dummit And Foote Solutions Chapter 4 Chchch

Joacim Rocklöv



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