

Notation Cheat Sheet

1. $+$ Addition
2. $-$ Subtraction
3. $\times, \cdot$ Multiplication
4. $\div, /$ Division
5. $\mathbb{N}$ Natural Numbers
6. $\mathbb{Z}$ Integers (Zählen)
7. $\mathbb{Q}$ Rational Numbers (Quoziente)
8. $\mathbb{R}$ Real Numbers
9. $\neg$ Not, Negation
10. $\vee$ Or
11. $\wedge$ And
12. $\equiv$ Logically Equivalent (Later: Congruences)
13. $|$ Divides
14. $\Rightarrow$ Implies (If... Then)
15. $\Leftrightarrow$, (iff) If and Only If
16. $\in$ In
17. $\notin$ Not In
18. $\{\}, \emptyset$ Empty Set
19. $\cap$ Intersection (Of Sets)
20. $\cup$ Union (Of Sets)
21. $S^c, \bar{S}$ Set Complement (With Respect to a Universe U)
22. $S - T$ Set Difference
23. $S \times T$ Cartesian Product
24. $\subset$ Subset
25. $\subseteq$ Subset Or Equal
26. $\subsetneq$ Proper/Strict Subset (Subset Not Equal)
27. $\supset$ Contains

- 28. $\supseteq$ Contains Or Equal
- 29. $\supsetneq$ Properly/Strictly Contains (Contains Not Equal)
- 30. $\forall$ For All
- 31. $\exists$ There Exists