Algebra symbols

≡ identical to

:= equal by definition

≜ equal by definition

∝ proportional to

≪

≫

{ }

⌊*x*⌋

⌈*x*⌉

∑

∑∑

∏

## Logic symbols

& and

^ and

| or

∨ or

¬ not

! not

⊕ xor

⇒

⇔

∀ for all

∃ there exits

∄ there doesn’t exist

## Combinatorics Symbols

*n*!

*nCk* https://www.rapidtables.com/math/symbols/math_symbols/combination.GIF

## Set theory symbols

{ } set

A ∩ B intersection

A ∪ B union

A ⊂ B subset

A ⊄ B

A ⊃ B superset

A ⊅ B

2**A** all subsets of A

A = B equal sets

A \ B relative complement: objects that belong to A and not to B

A ⊖ B symmetric difference: objects that belong to A or B but not to their intersection

*a*∈A

(*a*,*b*) ordered pair

A×B cartesian product: set of all ordered pairs from A and B

|A| cardinality

| such that e.g.: A={x|3<x<14}

Ø empty set

## Greek alphabet letters

α Alpha

β Beta

Γ γ Gamma

Δ δ Delta

ε Epsilon

θ Theta

Σ σ Sigma

Φ Phi

Ω ω Omega