

meaning of void

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notation - What does $:=$ mean? - Mathematics Stack Exchange

What does $:=$ mean? where we are saying that the two sides are equal, but we are not defining "1" to be the expression " $\sin^2(\theta) + \cos^2(\theta)$ ". Basically, some people think that there should be notational difference between saying "I define blah to be equal to blankety" and saying "blah is equal to blankety". So they use $:=$ for the first and $=$ for the latter. Usually ...

What is the meaning of $\subset$? - Mathematics Stack Exchange

I have encountered this when referencing subsets and vector subspaces. For example, $T \subset \text{span}(S)$ should mean that T is smaller than $\text{span}(S)$ --at least from what I've gathered. Is $\subset$ a sort of $\leq$ or $<$...

notation - what does $\preceq$ or $\succeq$ mean? - Mathematics Stack Exchange

The curly versions of the less than and greater than signs are commonly used to denote some other ordering than the one that we are usually talking about. For instance there is a partial ordering on the symmetric matrices, where $A \preceq B$ if and only if $B - A$ is a nonnegative definite matrix. We write $\preceq$ instead of $\leq$ to avoid confusion with the ordering that we use more ...

Much less than, what does that mean? - Mathematics Stack Exchange

What exactly does $\ll$ mean? I am familiar that this symbol means much less than. ...but what exactly does "much less than" mean? (Or the corollary, $\gg$) On Wikipedia, the example they use is that $1 \ll 9999999999$. But my thought on that is that $10101011 \ll 10101011 + 9999999999$, based on the same logic. But I am confused because ...

The meaning of various equality symbols - Mathematics Stack Exchange

The meaning of various equality symbols Ask Question Asked 10 years, 8 months ago Modified 9 years, 8 months ago

What is $\equiv$ operator used for in math?

Since your professor was referring to engineering students, then it's likely they were referring to the identity symbol, which is used in an expression to mean the left and right hand sides are true for all values. So $\cos^2 \theta + \sin^2 \theta \equiv 1$ since it's true for all θ whereas $\cos \theta = 1$ only for $\theta = 0$.

= 1 since it's true only for some.

What is the meaning of the double turnstile symbol ($\models$)?

Just to enlarge on Harry's answer: Your symbol denotes one of two specified notions of implication in formal logic $\vdash$ -the turnstile symbol denotes syntactic implication (syntactic here means related to syntax, the structure of a sentence), where the 'algebra' of the logical system in play (for example sentential calculus) allows us to 'rearrange and cancel' the stuff we know on the left ...

Three dot $\dots$ symbol meaning - Mathematics Stack Exchange

Whats the meaning of this symbol? Its a three dot symbol: $\dots$ I read a book, im could not find any definition of this symbol. This is about continuum property of the natural numbers and the archimed...

Difference between Perpendicular, Orthogonal and Normal

It seems like perpendicular and normal would not have a nice meaning whereas orthogonal would as it is defined in terms of the dot product. Can someone give me a detailed breakdown as to the differences in their meanings, their uses and the situations for which each should be used?

logic - What does $\rightarrow$ mean in $p \rightarrow q$ (as different ...

Indeed this is the same meaning of $\rightarrow$, but the difference is that $p \rightarrow q$ is a statement about propositions, whereas $p \rightarrow q$ is a proposition. In some contexts, though, people don't make this distinction between material implication (the connective) and logical implication (the arrow).