

0.16666 repeating as a fraction

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factorial - Why does $0! = 1$? - Mathematics Stack Exchange

Why does $0! = 1$? All I know of factorial is that $x!$ is equal to the product of all the numbers that come before it. The product of 0 and anything is 0, and seems like it would be reasonable to assume that $0! = 0$. I'm perplexed as to why I have to account for this condition in my factorial function (Trying to learn Haskell ...)

Is 0 a natural number? - Mathematics Stack Exchange

Is there a consensus in the mathematical community, or some accepted authority, to determine whether zero should be classified as a natural number? It seems as though formerly 0 was considered i...

complex analysis - What is 0^i ? - Mathematics Stack Exchange

$0^i = 0$ is a good choice, and maybe the only choice that makes concrete sense, since it follows the convention $0^x = 0$ for $x > 0$. On the other hand, $0^{-1} = 0^{-1} = 0$ is clearly false (well, almost —see the discussion on goblin's answer), and $0^0 = 0$ is questionable, so this convention could be unwise when x is not a positive real.

algebra precalculus - Zero to the zero power - is $0^0=1$...

Notice that 0^0 is a discontinuity of the function $f(x, y) = x^y$, because no matter what number you assign to 0^0 , you can't make x^y continuous at $(0, 0)$, since the limit along the line $x = 0$ is 0, and the limit along the line $y = 0$ is 1.

What exactly is a 0-form? - Mathematics Stack Exchange

A 0-form on a vector space is just a scalar. A 0-form on a manifold is a function (i.e. it assigns a scalar to each tangent space of the manifold).

I have learned that $1/0$ is infinity, why isn't it minus infinity?

The other comments are correct: $1/0$ is undefined. Similarly, the limit of $1/x$ as x approaches 0 is also undefined. However, if you take the limit of $1/x$ as x approaches zero from the left or from the right, you get negative and positive infinity respectively.

Why does 0.00 have zero significant figures and why throw

out the ...

A value of "0" doesn't tell the reader that we actually do know that the value is < 0.1 . Would we not want to report it as 0.00? And if so, why wouldn't we also say that it has 2 significant figures? In other words, saying something has zero significant figures seems to throw out valuable information. What is the downside of handling 0 as an ...

Is zero a prime number? - Mathematics Stack Exchange

Zero is even, since $0 = 2 \cdot 0$, and 0 is an integer. If we use "number" in essentially any of the usual senses (integer, real number, complex number), yes, zero is a number.

What is the value of i^0 ? - Mathematics Stack Exchange

5 We have $x^0 := 1$ for every complex number x . (Notice that this is the only convention which fits into the rules of arithmetic, and there is no need to exclude $x = 0$. Think about the binomial theorem, for instance.) By the way, your exercise $\sum_{n=0}^{1000} x^n$ can be solved with the usual formula for geometric series.

definition - Why is $x^0 = 1$ except when $x = 0$? - Mathematics Stack ...

For example, $0^x = 0$ and $x^0 = 1$ for all positive x , and 0^0 can't be consistent with both of these. Another way to see that 0^0 can't have a reasonable definition is to look at the graph of $f(x, y) = xy$ which is discontinuous around $(0, 0)$. No chosen value for 0^0 will avoid this discontinuity.