Re: Calculus XOR Probability

Source: http://sci.tech−archive.net/Archive/sci.math/2006−05/msg00910.html

- *From*: cbrown@xxxxxxxxxxxxxxxxx
- *Date*: 4 May 2006 20:35:17 −0700

Tony Orlow wrote:

> cbrown@xxxxxxxxxxxxxxxxx said:
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> > > > > cbrown@xxxxxxxxxxxxxxxxx
> > > > > said:
>
> <snip>
>
> > > > > When you say there's a "problem" with my
> > > > > limit, what do you mean?
> > > >
> > > > I mean that it doesn't take into account anything but location,
> > > > and you're
> > > > using it to measure distance.
> >
> > Distance and length are real numbers.
> >
> > Is lim n−>oo {C_n} a real number, or is it a set of points?
>
> It's a sequential set of points, that is a line of some sort, with a real
> measure called length.

No, it's not.

{C_n} is a /sequence/ of /sets of points/.

A sequence of elements from some set X is essentially a function f : N −> X. We write "f_n" instead of f(n), so we don't get confused and think that f(3/2) might have some meaning. We then write {f_n} to indicate the whole function, rather than its value at some particular n.

(lim n−>oo {C