

Breaking News, II

I can see that worrying about infinity is causing unnecessary confusion. Recall that I once wrote, “Mathematics is difficult enough without ambiguous statements!” So for removing ambiguity, from now on, **any issue of limit points of a set or a sequence in \mathbb{R} shall exclude $\pm\infty$ as possibilities.** Just real numbers.

We should know by now that $+\infty$ is not a real number. Could it possibly be one? Suppose it were. If you accept that we decided awhile back how \mathbb{R} is a field, we would have had to assign a value to $+\infty + 1$. The feeling is that

$$+\infty + 1 = +\infty;$$

but then, the cancellation law for addition would give $1 = 0$. Are you convinced?

In sum, **questions and statements about “going to infinity” will be made separately.** (This issue came up already in Calc I.)