

Re: Set Theory question

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Herman Rubin wrote:

In article <1168162902.018715.210800@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, Jules <julianrosen@xxxxxxxxx> wrote:

I have a couple of questions. First, one poster (Aatu Koskensisilta) wrote "But interestingly, if choice fails it's possible that every cardinal has cofinality ω ." Did you mean that every ordinal has cofinality ω ? If not, then how is the cofinality of a cardinal defined?

This is not so. ω_1 does not have cofinality ω .

Careful, Herman. We are talking ZF (no choice) here. According to Kunen (p. 30), Levy showed that it is consistent with ZF that ω_1 has cofinality ω .

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