

Re: how come calculus can be exact?

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In article <1dc813f.0409051006.f35afef@posting.google.com>, ashok <arjdombivli@indiatimes.com> wrote:
>How come calculus gives the exact results despite we are making
>approximations(neglecting the infinitesimal which tends to zero) at
>its basic definition level?

>I am getting very much frustated over it.
>Can someone please convince me over the exclusion of the infinitesimal
>terms from the definition and still getting the correct results.??

The main idea is that of a limit. You aren't just making approximations, you are taking a limit of approximations as something (e.g. Delta x) goes to 0. In any good approximation method, the limit of the approximations is the exact result.

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