

Question about Calculus (Limit).....!

Q: Show that: $\lim_{x \rightarrow \pm\infty} \left(1 + \frac{1}{x}\right)^x = e$

*as x approaches infinity while taking
on positive or negative real values.*

Note:

Please explain me with step by step.

Please tell me as soon as possible.

Thanks a lot for this.