

Proof. Let $N = \frac{\epsilon}{2}$. Then since $n \geq N$,

$$\begin{aligned} |\frac{1}{n} - 0| &= |\frac{1}{n}| \\ &\leq \frac{1}{n} \\ &< \frac{1}{N} \\ &< \frac{\epsilon}{2} \end{aligned}$$

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