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introduction to analysis definition 3.1.1. If given $\epsilon > 0$ and $\delta > 0$ for $n \geq 1$ building this up in three successive stages i) an $\epsilon > 0$ approximates 1 to within ϵ ii) an $\epsilon > 0$ for $n \geq 1$ the approximation holds for all n far enough out in the sequence iii) given $\epsilon > 0$ and $\delta > 0$ for $n \geq 1$ the approximation can be made as close as desired

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