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Section 1.2. Limits And Continuity (2) A Strictly Increasing Sequence If $a_n < a_{n+1}$, For Every $n \in \mathbb{N}$: (3) A Decreasing Sequence If $a_n > a_{n+1}$, For Every $n \in \mathbb{N}$: (4) A Strictly Decreasing Sequence If $a_n > a_{n+1}$, For Every $n \in \mathbb{N}$: A Sequence $\{a_n\}$ Is Said To Be A (strictly) Monotonic Sequence If It Is Either (strictly) Increasing Or (strictly) Decreasing. Theorem 1.7. Bounded Monotonic Sequences ... Jan 24th, 2024

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Proof. We Easily Deduce From The Triangle Inequality That $\|x - y\| \leq \|x - z\| + \|z - y\|$. Therefore $\|x - y\| \leq \|x - z\| + \|z - y\|$; Where $M = \max_{k=1, \dots, n} \|x_k - y_k\|$. Theorem 1.2. Let There Be Given A Normed Vector Space X And A Finite Dimensional Vector Subspace P . Then For Any $f \in X$ there Exists $p \in P$ Minimizing $\|f - p\|$. Proof. Let F Apr 19th, 2024

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