
Notes on Topics in Analysis

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1 Isoperimetric Inequalities

Wiestrass Theorem :

If $f : [0, 1] \rightarrow \mathbb{R}$ is a continuous function and $\epsilon > 0$ then \exists a polynomial P such that $|f(x) - P(x)| < \epsilon \quad \forall x \in [0, 1]$.