

Test

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Theorem 1 (Weierstrass Approximation Theorem). Let $f : [a, b] \rightarrow \mathbb{R}$ be continuous. Given $\varepsilon > 0$, there exists a polynomial $p(x)$ satisfying

$$|f(x) - p(x)| < \varepsilon$$

for all $x \in [a, b]$.

Proof. This is a proof

□