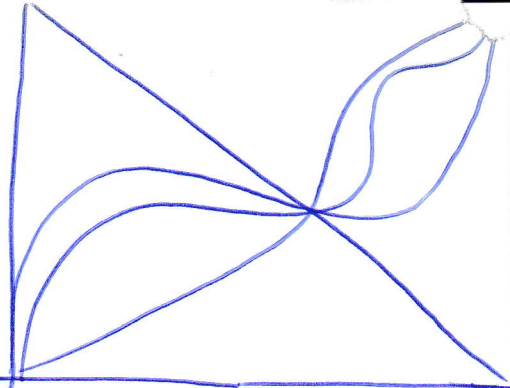


$$Y(t) = X(t) + \varepsilon(t)$$

$$|x-y| < \varepsilon \Rightarrow |f(x) - f(y)| < \delta$$

check (A), (B) & (C) in Thm 1



1, 2, 1, 3, 1, 3, 1, 9, 1, 10.

1, 12.

$$|c_i| < 6 \Rightarrow \frac{1}{|c_i|} > \frac{1}{6}$$

$$\Rightarrow \mathbb{P}[|c_i| \|z\| > \eta] \Rightarrow \|z\| > \eta / |c_i| > \eta / 6$$

$$C(S) \subset C^\infty(S)$$

$$\mathbb{E}[c_i z_{ni} \mid z_{ni}] \leq \sup_{C(S)} \leq \sup_{C(S)}$$

$$\tilde{X}_n = \sum c_i z_{ni} \quad X_n = \sum z_{ni} - \mathbb{E} z_{ni}$$

$$\mathbb{E} \tilde{X}_n = \sum \mathbb{E} c_i \mathbb{E} z_{ni}$$

$$\mathbb{E} \tilde{X}_n(s) \tilde{X}_n(t) = \mathbb{E} \left[ \sum_i c_i z_{ni}(s) \sum_j c_j z_{nj}(t) \right]$$

$$= \sum \mathbb{E} c_i^2 \mathbb{E} [z_{ni}(s) z_{ni}(t)] \text{ by independence within rows.}$$

$$= \sum_i \mathbb{E} [z_{ni}(s) z_{ni}(t)] = \mathbb{E} [X_n(s) X_n(t)]$$