

Martingale criterion (discrete time)

 ${\bf Canonical\ name} \quad {\bf Martingale Criterion discrete Time}$

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Theorem. Let $X = (X_n, \mathcal{F}_n)$ be a local martingale. If there is an $n_0 \in \mathbb{N}$ such that $\forall n \geq n_0, n \in \mathbb{N}$ either:

$$EX_n^- < \infty$$

or:

$$EX_n^+ < \infty$$

Then X is a martingale.