[redacted] *Assume* $0 \leq u_n < 1$.

(1) If $\sum_{n=1} u_n < \infty$, *then* $0 < \prod_{n=1}^{\infty}(1 - u_n) < \infty$.

(2) If $\sum_{n=1}^{\infty} u_n = +\infty$, *then* $\prod_{n=1}^{\infty}(1 - u_n) = 0$.