

Abstract: We introduce the notion of a-walk $S(n) = a_1X_1 + \dots + a_nX_n$, based on a sequence of positive numbers $a = (a_1, a_2, \dots)$ and a Rademacher sequence X_1, X_2, \dots . We study recurrence/transience (properly defined) of such walks for various sequences of a . In particular, we establish the classification in the cases where $a_k = bk^\beta$, $\beta > 0$, as well as in the case $a_k = d \log^\gamma k$ or $a_k = \log^\gamma k$ for $\gamma > 1$.