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On differences and sums of integers. II. (English) Zbl 0413.10049
Bull. Greek Math. Soc. 18, 204-223 (1977).

This paper continues the authors' investigation of difference and sum intersector sets and the solubility of related equations begun in part I [J. Number Theory 10, 430-450 (1978; Zbl 0404.10029)]. They prove that the set $\{[\alpha], [2\alpha], \dots, [n\alpha], \dots\}$ where α is a fixed irrational number and $[x]$ is the integer part of the real number x , is a difference intersector set but need not be a sum intersector set. "Sparse" intersector sets are also investigated and it is shown that while there are bounded difference intersector sets, sum intersector sets are always unbounded. A number of conjectures are made.

Reviewer: [M.M.Dodson](#)

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MSC:

[11B13](#) Additive bases, including sumsets
[11B83](#) Special sequences and polynomials
[11P99](#) Additive number theory; partitions
[11D85](#) Representation problems

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Keywords:

[sequences of integers](#); [density](#); [sum intersector sets](#); [difference intersector set](#)