

f -REPRESENTATIVES GROUPS

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ABSTRACT. The b -parts, b -addition of real numbers and some of their extensions (e.g., f -multiplications) were introduced and studied by the author. In this paper, we introduce f -representatives groups of a given group (G, \cdot) which can be considered as a generalization of the group of the least non-negative residues (modulo n). Thereafter, we study some of their important properties and their relations among the ground group (G, \cdot) , a related quotient group, and f -grouplikes. Finally, many equivalent conditions for f -representatives groups and several examples in the group of real numbers will be given.

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