

**Ingenuity in Mathematics.** By ROSS HONSBERGER. Pp. vii, 204. 1970. New Mathematical Library, 23. (Random House, New York.)

There is a steady demand by the intelligent layman and the inquiring school pupil for readable books about real mathematics. Intending authors or those who have attempted lecturing in response to this demand will know that a major difficulty is to find topics which can be handled in a simple and readily intelligible form and are yet not trivial; this is particularly true if calculus methods may not be employed.

Professor Honsberger has drawn his inspiration from *The Enjoyment of Mathematics*, by Radamacher and Toeplitz, which, as he says in his preface, is one of the very best books of this class. He has selected 19 topics, none of which requires for its comprehension anything more than the algebra, geometry and trigonometry of the school curriculum; yet even with this restriction, he proves, for instance, Barbier's remarkable theorem that any convex curve of constant breadth  $b$  has a length  $\pi b$ . None of the topics is mathematically trivial, though some are more difficult than others. The author has a knack of phrasing results in a striking form, and of bringing out curious inter-connections. To say and prove that the number of representations of a positive integer as a sum of two squares is, on the average, equal to  $\pi$  is surely likely to stimulate mathematical imagination, while the schoolboy who has met the golden ratio in elementary geometry should be surprised and interested to find it turning up in the discussion of Wythoff's match game, a variant of Nim.

Most of the essays have examples, with solutions, and references for further reading. Perhaps it is old-fashioned to believe that Dr. Hilda Hudson's *Ruler and Compasses* is still the best account of Mohr-Mascheroni geometry.

T. A. A. BROADBENT

**Sets and Boolean Algebra.** By M. RUEFF and M. JEGER. Pp. 192. £2.25. 1970. (George Allen and Unwin.)

This book is the fourth in a new series of Mathematical Studies for Teachers and Students; the first book in the series was the well-known *Transformation Geometry* by one of the authors of the present work, M. Jeger. Like the previous volume the present is clearly written, informative and stimulating, with the emphasis on applications of Boolean algebra to probability theory and the reduction of switching circuits. I do not know of a better treatment of either of these topics at an equally elementary level. The section presenting a set of axioms for Boolean algebra, however, needs supplementation by rules of inference; it should be pointed out that each of  $A \cup C = B \cup C$ ,  $A \cap C = B \cap C$ ,  $A' = B'$  may be inferred from  $A = B$ , that equality is reflexive, symmetric and transitive and that the set of elements is closed under union, intersection and complementation, the axioms holding for all elements so that for instance not only do we have  $A \cup B = B \cup A$  for the particular elements  $A$ ,  $B$  but also  $A \cup (C \cap D) = (C \cap D) \cup A$  etc. Alternatively we may treat the letters  $A, B, C, \dots$  as variables for which we may substitute Boolean formulae, a formula being defined to be either a variable or the complement of a formula or the union or intersection of formulae.

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**David Kirk**



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