

ELEMENTARY CALCULUS AND COORDINATE GEOMETRY

By C. G. NOBBS, Second Master at City of London School

Part I. Pp. 256, with many diagrams. 12s. 6d.

Part II, due in January, will be 17s. 6d.

The author has aimed at covering the calculus and coordinate geometry required for the Additional Mathematics syllabuses of School Certificate examinations as well as all the coordinate geometry and most of the calculus needed by scientists in Higher Certificate examinations. In the early stages the two subjects are treated as one.

The approach to the subject is inductive, proofs being based in the first instance on a detailed investigation of numerical cases. The development is always from particular cases to the appropriate generalization.

The examples have been very carefully graded. As far as possible the bookwork has been divided into short sections each with its own set of direct and simple exercises. At intervals, sets of simple miscellaneous exercises are provided to give the pupil practice in selecting the appropriate tool. There are also sets of miscellaneous exercises of the problem type and many of these are genuinely practical examples. Another feature of these exercises is the way in which, by means of a series of questions, the plan of an attack on a problem is outlined. Then, in the next question, a problem of a similar nature is proposed but the intermediate steps are omitted.

Great care has been taken both in planning the development of the work and in the production of the book to ensure that the many diagrams included are placed correctly on the page so that they assist in making each stage of the argument clear without running ahead of it.

The last chapter contains, for a school text-book, an unusually systematic account of the methods of approximating to the roots of numerical equations. This work is not difficult and has considerable interest and educational value. It is hoped that the treatment is sufficient to inculcate the basic principles of numerical computation and to form useful preparatory work for the study of the limits of infinite sequences.

*We shall be glad to hear from teachers
wishing to examine the book.*

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