review of the first edition.* As these have been retained unchanged in the revision, it is only necessary in the present notice to call attention to the principal additions to material and changes in arrangement.

The original edition contained extensive accounts of the curves of the third and fourth orders, but nothing on curves of the fifth order. Since then a good deal has been written on special curves of order five by Morley, Basset, Snyder, Field, and others, so that it is but natural to find in the revised work an account of these researches and of the theory and history of the general quintic. It may be noted that the theory of the general sextic is now included, in addition to the treatment of the special sextics given in the earlier edition.

In the review mentioned Professor Wilson discussed in detail what Loria called panalgebraic curves, and stated that for advanced students this section, which was then relegated to a note at the end of the volume, was of more interest and importance than all the rest of the book. The change of arrangement by which this discussion is brought to the dignified position of Chapter I seems to the reviewer most advantageous and important. In this position the subject is better situated to attract students, and before many years it may receive merited attention.

The other changes in the work are made principally for the purpose of bringing the older treatment up to date or to complete the history.   C. L. E. MOORE.

Encyklopädie der Elementar-Mathematik. Von HEINRICH
    WEBER und JOSEF WELLSTEIN. Erster Band: *Elementare
    Algebra und Analysis.* Bearbeitet von H. WEBER. Dritte
    Auflage. Leipzig, Teubner, 1909. xviii + 532 pp.

THE first edition of this book has been reviewed in this BULLETIN.† The third edition differs from the first primarily in the introduction of nearly 100 pages of new subject matter. These additions consist chiefly of historical notes, which are appended to a number of chapters, and an entirely new chapter at the end, which is devoted to the graphical representation of a function, differentiation, and integration.

The value of the book is much increased by the additions, which harmonize with the spirit of the earlier editions.

F. W. OWENS.

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* BULLETIN, vol. 9 (1903), pp. 492–501.
† Vol. 10, pp. 200–204.