it possible to dispose of the question of tangents, normals and polars for the ellipse, hyperbola and parabola at one stroke.

The small number of formulæ given and of theorems proven is an excellent feature of the book, for the student should be made to look upon analytic geometry not as a mass of formulæ and theorems, but as a method by which he can deduce formulæ and theorems when he wants them. Exercises occupy, as they should, a prominent place, though we regret that such a large proportion of them are of the trivial numerical sort.

Perhaps the most important class of exercises for developing the thinking power of the student are locus problems. Exercises of this sort are not wanting; but little attention is given in the text to the methods of solving them, even the introduction of auxiliary variables and their subsequent elimination not being explicitly mentioned. This is a serious omission, which, however, can be supplied by the teacher.

The portion of the book devoted to plane analytic geometry includes a discussion of some of the more elementary properties of the ellipse, hyperbola and parabola and closes with a chapter on the general equation of the second degree.

Nearly one quarter of the book is devoted to solid analytic geometry and in this space it has been possible to give an introduction to the subject amply sufficient as a preparation for higher mathematical work. At the close the questions of the rectilinear generators and circular sections of quadric surfaces are touched upon.

In conclusion the book deserves praise not only for clearness of statement but in the main for rigor of treatment.

MAXIME BÔCHER.

NOTES.

A REGULAR meeting of the AMERICAN MATHEMATICAL SOCIETY was held in New York, on Saturday afternoon, May 29, at three o'clock. Professor F. MORLEY and later the Vice-President, Professor R. S. WOODWARD, occupied the chair. There were eight members present. The Council announced the election of the following persons to membership in the Society : Mr. WILLIAM ANTHONY GRANVILLE, Yale University, New Haven, Conn.; Dr. KURT LAVES, University of Chicago, Chicago, Ill.; Professor ANNA HEL-