

NOTES.

CERTAIN numbers of the *Bulletin of the New York Mathematical Society* are now nearly out of print. The committee of publication is especially desirous of procuring copies of volume 2, nos. 6 and 7, and volume 3, nos. 3 and 9, and is willing to pay one dollar per copy for these numbers. The committee respectfully requests the members of the Society to look over their files and to notify the committee of any duplicates of the numbers mentioned with which they are willing to part. The Society receives a considerable revenue from the sales of sets of the BULLETIN and is often able to secure desirable exchanges of back volumes of other mathematical journals in return for its own. These two interests will be seriously affected as soon as the present small supply of the numbers in question is exhausted, unless the committee of publication is able to replace them.

THE twelfth regular meeting of the Chicago Section of the AMERICAN MATHEMATICAL SOCIETY will be held in the Ryerson Physical Laboratory of the University of Chicago, on Friday and Saturday, January 2 and 3, 1903. Titles and abstracts of papers should be in the hands of the secretary of the section, Professor T. F. Holgate, 617 Hamline St., Evanston, Ill., at least two weeks before the meeting.

THE second regular meeting of the San Francisco Section of the AMERICAN MATHEMATICAL SOCIETY will be held in room 21, North Hall, of the University of California, on Saturday, December 20, 1902. Titles and abstracts of papers should be in the hands of the secretary of the section, Professor G. A. Miller, Stanford University, at least two weeks before the meeting.

A NEW edition of the Annual Register of the AMERICAN MATHEMATICAL SOCIETY is now in preparation and will be issued in January next. Forms for furnishing necessary information have been sent to each member. Those who have not already responded to the circular are requested to do so at once.

THE October number (volume 4, number 1, second series) of the *Annals of Mathematics* contains: "The geodesic lines