BOOKS, ETC., RECEIVED .- Continued.

An Introduction to Elementary Statics (treated graphically). By R. NETTELL. pp. 64. 2s. 1905. (E. Arnold.)

Wiadomosci Matematyczne. Edited by S. Dickstein. Tom VIII. Parts 4, 5,

Oeuvres de Laguerre. Edited for the Académie des Sciences by MM. Ch. Hermite, H. Poincaré, and E. Rouché. Tome II. Géométrie. pp. iv, 716. 22 frcs. 1905. (Gauthier-Villars.)

Leçons de Mécanique Céleste. By H. Poincaré. Tome I. Théorie Générale des Perturbations Planétaires. pp. vi, 366. 1905. (Gauthier-Villars.)

Einführung in die Vektoranalysis, mit Anwendung auf die Mathematische Physik: By R. Gans. pp. x, 98. 2m. 80. 1905. (Teubner.)

Orthogonale Axonometrie. By R. Schussler. pp. viii, 170. 7m. 1905. (Teubner.)

Cours de Géométrie Analytique. By H. Mandart. pp. 574. 10 frcs. 1904. (Wesmael-Charlier, Namur.)

Tōkyō Sūgaku-Buturigakkwai Hōkoku. Vol. II. Nos. 5-17.

On Transfinite Cardinal Numbers of the Exponential Form. By P. E. B. Jourdain. pp. 42-56. Phil. Mag., Jan. 1905.

On the General Theory of Functions. By P. E. B. JOURDAIN. pp. 169-210. Crelle. Heft 3. Bd. 128.

A Study of the Development of Geometric Methods. By G. Darboux. Translated by G. B. Halsted (Popular Science Monthly, March, 1905). pp. 412-434.

A Preparatory Course of Geometry. By W. P. Workman and A. G. Crack-NELL. pp. vii, 56. 9d. 1905. (Univ. Tutorial Press.)

Introductory Mathematics. By R. B. Morgan. pp. vi, 151; Answers separate, pp. 16. 2s. 1905. (Blackie.)

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