

observations are entirely in accordance with the recent practice of some colleges in setting admission examination papers in geometry which demand of the candidates some capacity to solve new problems, or rather to make new application of familiar principles.

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NOTES.

A REGULAR meeting of the NEW YORK MATHEMATICAL SOCIETY was held Saturday afternoon, January 6, at half-past three o'clock, the vice-president, Dr. G. W. Hill, in the chair. Mr. John Franklin Shields, of the Adelphi Academy, Brooklyn, having been duly nominated, and being recommended by the council, was elected a member. Dr. Blake made some general remarks in connection with the recently published concluding volume of Lie's "Theory of Transformation Groups," edited by Engel.

THE lists of substitution groups published by Professor Cole in the last volume of the BULLETIN (No. 7, pp. 184-190, No. 10, pp. 250-258) have been reprinted in the *Quarterly Journal of Mathematics*, vol. 26, pp. 372-388, forming part of another article by Professor Cole, viz. "List of the substitution groups of nine letters."

WE have to record the death, on January 1, 1894, of Heinrich R. Hertz, professor of physics in the University of Bonn, at the age of thirty-seven years.

THE professorship of mathematics at Tulane University, vacated through the death of Professor J. L. Cross, has been filled by the appointment of Dr. W. B. Smith, recently of the Missouri State University.

T. S. F.

PROFESSOR FLORIAN CAJORI'S History of Mathematics has just been published by Macmillan & Co., of New York. The same house announces as in preparation a volume on Hydrostatics, by A. G. Greenhill, and a new edition of Lord Rayleigh's Theory of Sound, comprising the whole subject in two volumes; also a volume on Modern Plane Geometry, by G. Richardson and A. S. Ramsey, and one on Geometrical Conic Sections, by Charles Smith.

A. Z.