809.

SCHRÖTER'S CONSTRUCTION OF THE REGULAR PENTAGON.

[From the Messenger of Mathematics, vol. XII. (1883), p. 177.]

The following construction of the regular pentagon, analogous to the more complicated one for the polygon of 17 sides, is given in the paper, H. Schröter, Zur v. Staudtschen "Construction des regulären Siebenzehnecks," Crelle, t. LXXV. (1873), pp. 13—24.

Take in a circle AB, CD diameters at right angles to each other, and at C, D draw in the directions A to B and B to A respectively, the lines Cc, = 4 radii, and Dd, =1 radius; draw cd meeting the circle in the points E and F; draw CE and CF cutting AB in the points e and f respectively, and through these at right angles to AB draw the chords 34 and 25 respectively, then we have A2345 a regular pentagon.

