A KEY TO THE EXERCISES IN ELEMENTS OF GEOMETRY

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A KEY

TO

THE EXERCISES

IN

ELEMENTS OF GEOMETRY

BY

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TABLE OF REFERENCE TO THE EXERCISES IN THE ELEMENTS OF GEOMETRY.

NOTE.

A SMALL number of Riders and Problems in the Edition of my *Elements of Geometry* published in 1880 will be replaced by other Exercises in future Editions. The following List points out the Exercises in the Edition of 1880 of which no solution is given in this book :—

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J. HAMBLIN SMITH.

CAMBRIDGE, *April* 1880.

KEY TO

ELEMENTARY GEOMETRY.

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EXERCISE 1. Let F be the other point in which the circles intersect.

Draw the straight lines AF, BF.

Then $\because$ A is the centre of $\odot$ BFD,

$\therefore AF = AB$;

and $\because$ B is the centre of $\odot$ AFE,

$\therefore BF = AB$.

$\therefore AF = BF$, and ABF is an equilateral $\triangle$.

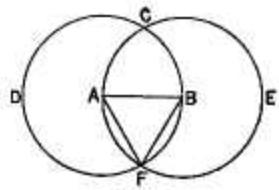

FIG. 1.

EX. 2. Let AB, CD be two given straight lines, of which AB is the less.

Draw the straight line $AE = CD$, and with centre A and distance AE describe $\odot$ EFH.

Produce AB to meet the $\bigcirc$ce in H.

Then $AH = AE$, and $\therefore AH = CD$.

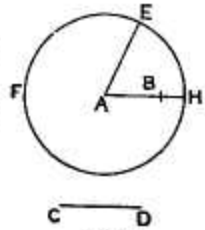

FIG. 2.

EX. 3. With centre B and distance BC describe $\odot$ CDE, and from B draw any line BD to meet the $\bigcirc$ce in D.

Then $BD = BC$.

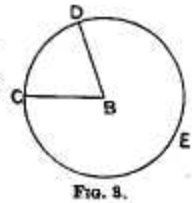

FIG. 3.