

ELEMENTARY MATHEMATICS

from an

ADVANCED STANDPOINT

*Arithmetic
Algebra
Analysis*

BY

FELIX KLEIN

Elementary Mathematics From An Advanced Standpoint

Felix Klein



Elementary Mathematics From An Advanced Standpoint:

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for the present is to be carried out only for the fields of Arithmetic Algebra and Analysis was indicated in the preface to Klein Schimmack April 1907 I had hoped then that Mr Schimmack in spite of many obstacles would still find the time to put my lectures into form suitable for printing But I myself in a way prevented his doing this by continuously claiming his time for work in another direction upon pedagogical questions that interested us both It soon became clear that the original plan could not be carried out particularly if the work was to be finished in a short time which seemed desirable if it was to have any real influence upon those problems of instruction which are just now in the foreground As in previous years then I had recourse to the more convenient method of lithographing my lectures especially since my present assistant Dr Ernst Hellinger showed himself especially well qualified for this work One should not underestimate the service which Dr Hellinger rendered For it is a far cry from the spoken word of the teacher influenced as it is by accidental conditions to the subsequently polished and readable record On the teaching of mathematics in the secondary schools The organization of mathematical instruction IV In precision of statement and in uniformity of explanations the lecturer stops short of what we are accustomed to consider necessary for a printed publication I hesitate to commit myself to still further publications on the teaching of mathematics at least for the field of geometry I prefer to close with the wish that the present lithographed volume may prove useful by inducing many of the teachers of our higher schools to renewed use of independent thought in determining the best way of presenting the material of instruction This book is designed solely as such a mental spur not as a detailed handbook The preparation of the latter I leave to those actively engaged in the schools It is an error to assume as some appear to have done that my activity has ever had any other purpose

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