PREFACE TO THE SECOND EDITION

In this edition changes have been made in Part I. on the suggestion of teachers who have kindly pointed out difficulties experienced by their pupils in using the original edition. The exercises have been re-arranged and, in general, divided into two sections. Those marked (a) are intended for a first reading, and are sufficient for candidates for Entrance to the Faculties of Education, while the sections marked (b) are more suitable for candidates for honours and scholarships.

Demonstrations have been re-written, diagrams added, and notes given suggesting constructions or proofs. Some typical solutions illustrate methods to be used in maxima and minima.

In many cases, e.g., loci, the difficulties have been diminished. Certain exercises in the First Edition were stated as problems. Under the given conditions the students were asked to find the required solution. These exercises are here changed to theorems. With the same data the conclusion is stated and the proof only is to be discovered.

In both parts considerable additions suitable for honour candidates have been made to the miscellaneous exercises.

Acknowledgments for valuable assistance received from him are due to Mr. I. T. Norris, Mathematical Master of the Ottawa Collegiate Institute, and to the teachers who have given an encouraging approval of the book as well as assistance in making it more useful.

OTTAWA, February, 1919.