A TREATISE ON GEOMETRICAL CONICS, IN ACCORDANCE WITH THE SYLLABUS OF THE ASSOCIATION FOR THE IMPROVEMENT OF GEOMETRICAL TEACHING

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A treatise on geometrical conics, in accordance with the syllabus of the association for the improvement of geometrical teaching by Arthur Cockshott & F. B. Walters

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ARTHUR COCKSHOTT & F. B. WALTERS

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BY

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PREFACE.

THE need of some recognized sequence of propositions in Elementary Geometrical Conics has long been very generally admitted. This need the Association for the Improvement of Geometrical Teaching has attempted to supply by the publication of the Syllabus of Geometrical Conics, which was drawn up by an influential Committee and accepted by the Association at their annual General Meeting in January, 1884.

In the following pages we have given proofs of the propositions in the hope that they may be found useful to those teachers who desire to adopt the order to which the Association has given the weight of its approval.

We have introduced a chapter on Orthogonal Projection immediately after that on the Parabola, as we think it important that the student should understand as early as possible the close connection between the ellipse and circle and should be introduced at once to a method by which so

many properties of the ellipse may be deduced from well-known properties of the circle.

At the end of the book will be found a large collection of Cambridge problems; we have given a list of important properties of Conics, not included in the propositions in the text—all of which are considered as well known and may therefore be assumed in the solution of any other problems.

A. C.
F. B. W.

May, 1889.

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