

SOLUTIONS OF THE PROBLEMS AND RIDERS

PROPOSED

IN THE SENATE-HOUSE EXAMINATION

FOR 1857.

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BY  
THE MODERATORS AND EXAMINERS.

WITH AN APPENDIX  
CONTAINING THE EXAMINATION PAPERS IN FULL.

"It is good to vary and intermingle asking of questions with telling of opinions."  
BACON.

Cambridge:  
MACMILLAN AND CO.  
1857.

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## P R E F A C E.

ONE of the purposes for which the Board of Mathematical Studies was established, was to communicate to Students "correct views of the nature and objects of the Mathematical Examination;" and, in furtherance of this purpose, the Board has, from time to time, defined more strictly the limits of the subjects of examination, and informed the Students of the nature of the work which was required from them.

The Moderators and Examiners conceive that they are further promoting this object by giving to future Candidates for Mathematical Honors an opportunity of examining the Solutions of the Problems and Riders proposed at the last Examination as prepared by the Proposers themselves, and thus of ascertaining still more clearly the nature of the examination to which our Mathematical Students have been ordinarily subjected.

*Cambridge, May 6th, 1857.*