

# VIII. FASCIMILE OF THE MARCH 22, 2005

## ALTERNATE AIME FRONT COVER

MATHEMATICAL ASSOCIATION OF AMERICA  
AMERICAN MATHEMATICS COMPETITIONS



23<sup>rd</sup> Annual (*Alternate*)

AMERICAN INVITATIONAL  
MATHEMATICS EXAMINATION  
(AIME)

Tuesday, March 22, 2005

1. DO NOT OPEN THIS BOOKLET UNTIL YOUR PROCTOR GIVES THE SIGNAL TO BEGIN.
2. This is a 15-question, 3-hour examination. All answers are integers ranging from 000 to 999, inclusive. Your score will be the number of correct answers; i.e., there is neither partial credit nor a penalty for wrong answers.
3. No aids other than scratch paper, graph paper, ruler, compass, and protractor are permitted. In particular, **calculators and computers are not permitted.**
4. A combination of the AIME and the American Mathematics Contest 10 or the American Mathematics Contest 12 scores are used to determine eligibility for participation in the U.S.A. Mathematical Olympiad (USAMO). The USAMO will be given on TUESDAY and WEDNESDAY, April 19 & 20, 2005.
5. Record all of your answers, and certain other information, on the AIME answer form. Only the answer form will be collected from you.

*The publication, reproduction or communication of the problems or solutions of the AIME during the period when students are eligible to participate seriously jeopardizes the integrity of the results. Duplication at any time via copier, telephone, email, world wide web, or media of any type is a violation of the competition rules.*

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