

61st ANNUAL HIGH SCHOOL HONORS MATHEMATICS CONTEST

April 21, 2018
on the campus of the
University of California, San Diego

PART I 25 Questions

Welcome to the contest! Please do not open the exam until told to do so by the proctor.

EXAMINATION DIRECTIONS:

1. Print (**clearly**) your Name and Contest ID number at the top of **each page of the contest**. (Keep your ID number handy for Part II.)
2. Calculators or other electronic devices may **not** be used.
3. There are 25 multiple-choice questions on Part I. You have 90 minutes for Part I.
4. Clearly indicate your answer in the bubble for each problem. Fill in the bubble, or put a clear X, or a checkmark; just make sure your selection is clear.
5. At the end of Part I, tear off this front page, and turn in your (still-stapled) contest.

Scoring

- +4 points for a correct answer.
 - 0 points for no answer.
 - 1 points for an incorrect answer.
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Good Luck!

There will be a 15 minute break after Part I before proceeding to Part II.

Please let your coach know if you plan to attend the Awards Banquet on Wednesday, May 2, 6:00–8:30pm in the UCSD Faculty Club.

ANSWERS.

- | | |
|---------|---------|
| 1. (B) | 14. (A) |
| 2. (C) | 15. (A) |
| 3. (E) | 16. (D) |
| 4. (D) | 17. (C) |
| 5. (C) | 18. (C) |
| 6. (D) | 19. (B) |
| 7. (C) | 20. (C) |
| 8. (B) | 21. (B) |
| 9. (B) | 22. (E) |
| 10. (C) | 23. (A) |
| 11. (A) | 24. (B) |
| 12. (B) | 25. (D) |
| 13. (B) | |

(A)×4 (B)×8 (C)×7 (D)×4 (E)×2