

**Math 999: Exam 1**  
**Semester – Year**  
**MM/DD/YYYY**  
**00 Minutes**

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**Name:** \_\_\_\_\_

Write your name on the appropriate line on the exam cover sheet. This exam contains 12 pages (including this cover page) and 14 questions. Check that you have every page of the exam. Answer the questions in the spaces provided on the question sheets. Be sure to answer every part of each question and show all your work. If you run out of room for an answer, continue on the back of the page — being sure to indicate the problem number.

Question	Points	Score
1	5	
2	6	
3	1	
4	3	
5	1	
6	1	
7	1	
8	3	
9	1	
10	1	
11	1	
12	10	
13	0	
14	0	
Total:	34	

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1. (5 points) Solve the Riemann Hypothesis. Be sure to justify each step.


2. Answer the following parts completely.

(a) (1 point) What is Mathematics?

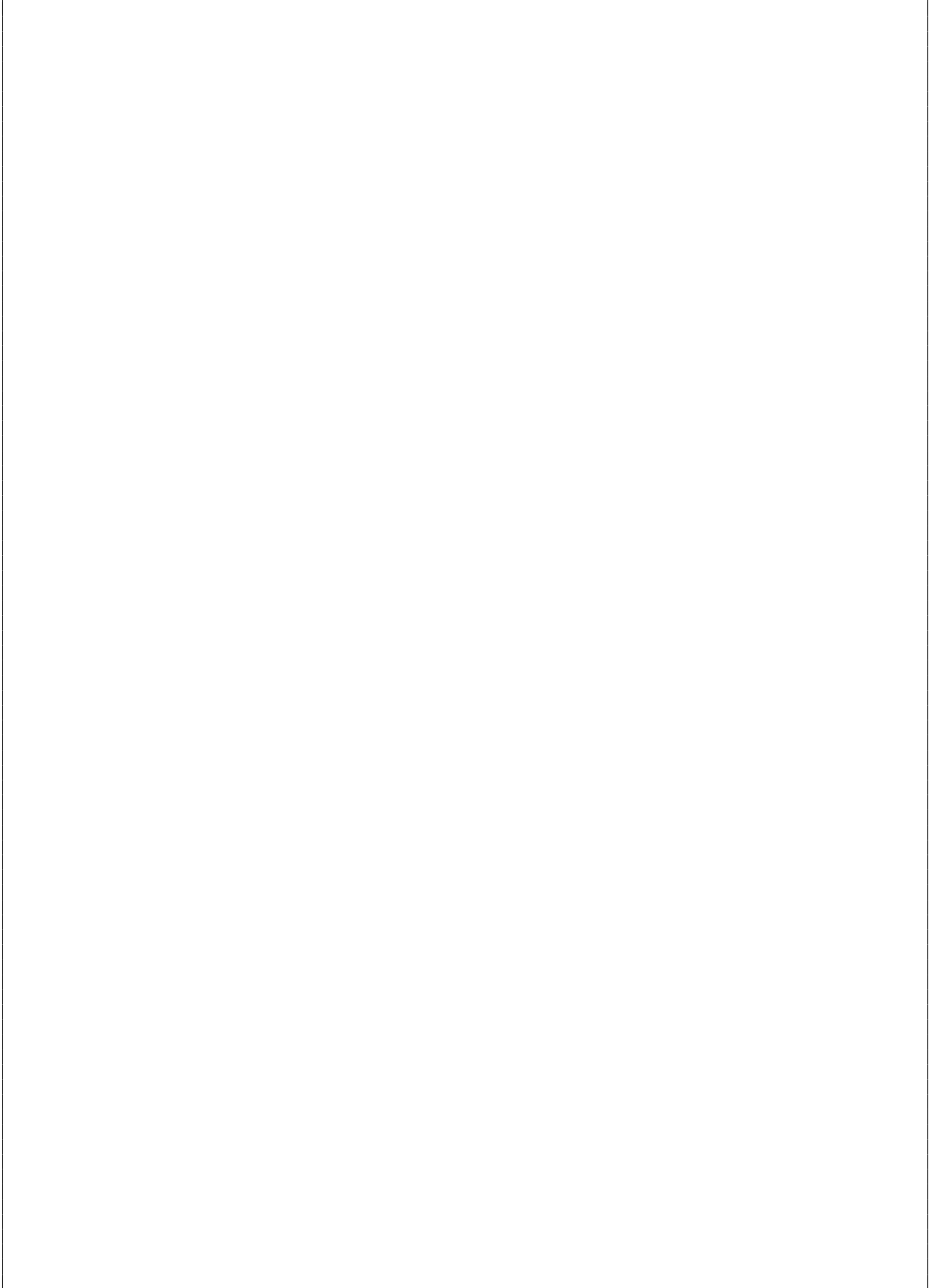
(b) (2 points) Why are we here?

(c) (3 points) What is the meaning of life?

3. (1 point) Write an answer to an unasked question in the space below.



4. (3 points) Write an award winning level novel in the space below.

A large, empty rectangular box with a thin black border, intended for the student to write a novel. The box occupies most of the page below the question.

5. (1 point) Choose an option.

- A. Here is an option.
- B. Here is another.
- C. A third choice!

6. (1 point) Choose an option.

- A. Here is a choice.   B. Another choice   C. It keeps going!

7. (1 point) Mark circle if true.

- This choice is correct.
- The other choice is incorrect.

8. (3 points) Mark box if true.

- This choice is not true.
- This choice is not false.







11. (1 point) What is  $2 + 2 = ?$

A. Martha Washington

B. Mars

C. 17

D. 4

E.  $-4$

F. Cannot be determined.

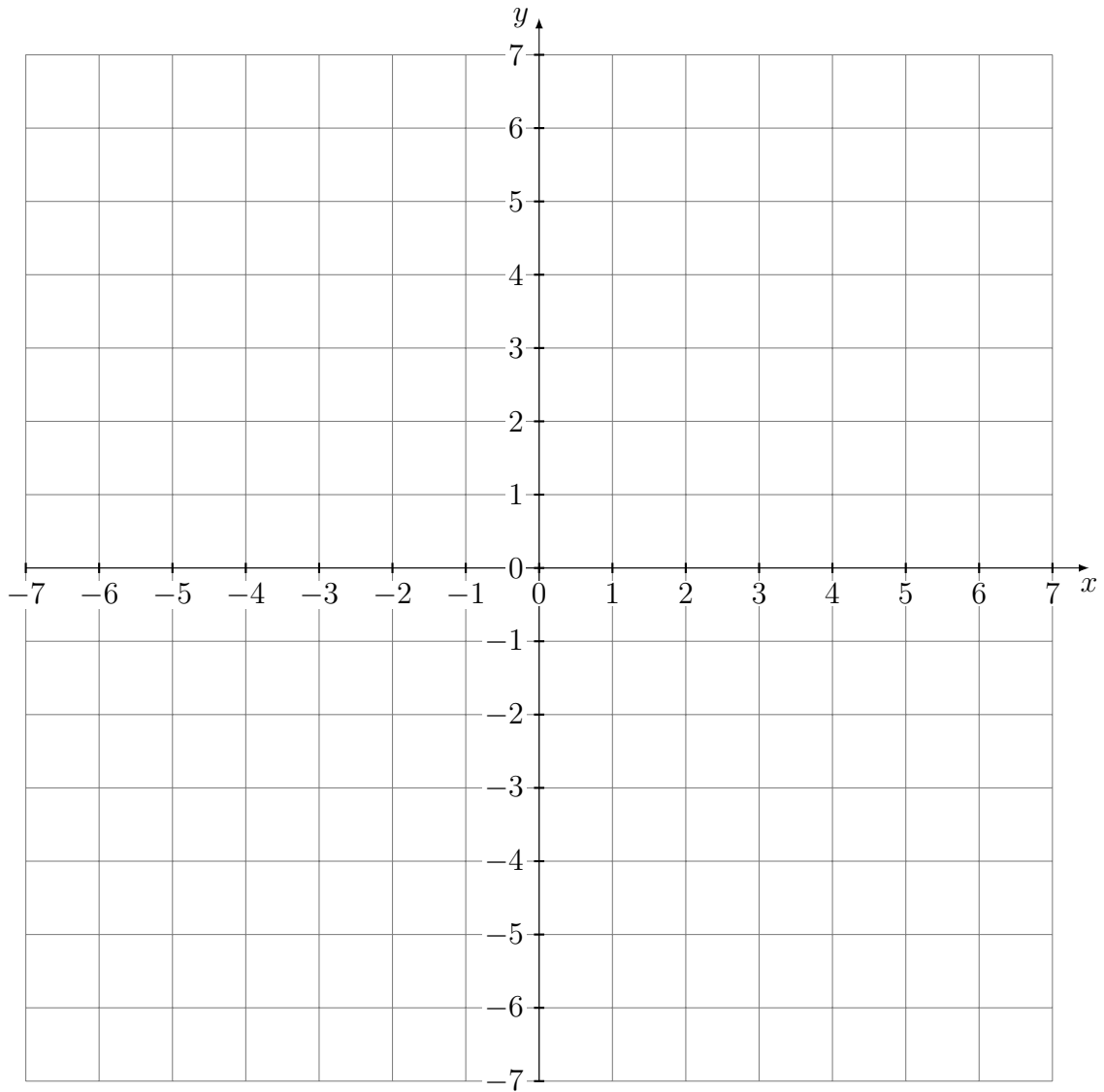
G. None of the above.

H. All of the above.

12. (10 points) Mark the following statements True or False:

- |   | True                     | False                    |
|---|--------------------------|--------------------------|
| (a) This statement is true.               | <input type="checkbox"/> | <input type="checkbox"/> |
| (b) This statement is false.              | <input type="checkbox"/> | <input type="checkbox"/> |
| (c) The statement above is true.          | <input type="checkbox"/> | <input type="checkbox"/> |
| (d) The answer to this question is false. | <input type="checkbox"/> | <input type="checkbox"/> |

13. Draw a graph below.



14. Draw a graph below.

