This is the title

December 6, 2023

Answer the questions in the spaces provided on the question sheets. If you run out of room for an answer, continue on the back of the page.

Signature: _____

Date: _____

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Wellesley College
Final Examination, Spring 1993
Mathematics 115

Name: _____

Answer the questions in the spaces provided on the question sheets. If
you run out of room for an answer, continue on the back of the page.

Name and section: _____
Instructor's name: _____

Question	Points	Score
1	10	
2	15	
3	10	
4	10	
5	10	
6	10	
7	10	
8	20	
9	0	
Total:	95	

Question:	1	2	3	4	5	6	7	8	9	Total
Points:	10	15	10	10	10	10	10	20	0	95
Score:										

Questions 1 through 5 should be evaluated completely, not just approximated.

1. (10 points) One of these things is not like the others; one of these things is not the same. Which one is different?

     A. John

     B. Paul

     C. George

     D. Ringo

2. (15 points) How much wood would a woodchuck chuck if a woodchuck could chuck wood? A. John   B. Paul   C. George   **D. Ringo**

3. (10 points) Compute $\int_0^1 x^2\,dx$.

    ◯ John

    ◯ Paul

    ◯ George

    √ **Ringo**

4. (10 points) _____**black**_____ is the color of my true love's hair

5. (10 points) True/False

  (a) **T** The world is all that is the case.

  (b) **F** My favorite color is blue.

6. (10 points) Why is there air?

6. _____**Tom**_____

7. What if there were no air?

   (a) (5 points) Describe the effect on the balloon industry.

   (b) (5 points) Describe the effect on the aircraft industry.

8. (a) (10 points) Define the universe. Give three examples.

   Solution: Once upon a midnight dreary, while I pondered, weak and weary, Over many a quaint and curious volume of forgotten lore— While I nodded, nearly napping, suddenly there came a tapping, As of some one gently rapping, rapping at my chamber door. " 'Tis some visitor," I muttered, "tapping at my chamber door— Only this and nothing more."

    (b) If the universe were to end, how would you know?

        i. (5 points) Justify your answers with real world examples.

      ii. Prove your answers.

          α) ($2\frac{1}{2}$ points) Think of the greek letters.

          β) ($2\frac{1}{2}$ points) This is fun.

9. (5 points (bonus)) This is a bonus for you.