

Quiz 12

(4/23/20)

Name:

Drill Time:

TA name:

Directions: This is a take-home quiz. It should be turned in online through blackboard using GradeScope by 11:59pm on **Wednesday April 29**.

Write your solutions on another sheet of paper. The only resources you may use are notes, books, other students *in* the class, the TAs and your instructor. Any other resources (e.g., a friend on your floor, the Internet in general, etc.) are *prohibited* and constitute cheating. When caught you will be referred to the Academic Integrity Office. **You will be graded for completeness and correctness. Include all supporting work. Because you have a long time to complete this, late work will NOT be accepted.**

1. Evaluate $\int_{-1}^1 (x^3 - x^2 + x - 1) dx$

2. Evaluate $\int_0^\pi \sin x dx$

3. Evaluate $\int \frac{\ln x}{x} dx$

4. Evaluate $\int_0^1 2x\sqrt{x^2 + 1} dx$

5. Evaluate $\int \frac{x}{1-x} dx$