## MAC 2311 Quiz 7 Name:

## Instructions:

- Show the steps of your work.
- Simplify your answers.
- Use clear and correct mathematical natation.
- Graphing tool is not allowed to use while taking this test.
- · Turn off your phone.
- (1) Consider f(x) = x + 3 on the interval [0, 1] (3 pts).
  - (a) Find the right Riemann sum with n rectangles. Simplify the expression as much possible.
  - (b) Approximate the area by taking n = 50 and use the expression from (a).
  - (c) Take a limit of the sum as  $n \to \infty$  to calculate the exact area under the curve.



