

Math 10A with Professor Stankova

Quiz 7; Wednesday, 10/11/2017

Section #106; Time: 10 AM

GSI name: Roy Zhao

Name: _____

Circle True or False or leave blank. (1 point for correct answer, -1 for incorrect answer, 0 if left blank)

1. True False We can use the addition differentiation law to prove the addition integration law for indefinite integrals $(\int(f + g) = (\int f) + (\int g))$.
2. True False Integrating an integrable function $f(u)$ from a to x gives us a specific anti-derivative of f .

Show your work and justify your answers. Please circle or box your final answer.

3. (10 points) (a) (3 points) Write $\int_1^4 \sqrt{1 - \sqrt{x}} dx$ as a limit of right endpoint Riemann sums (no need to calculate it).

(b) (7 points) Find $\int \sqrt{1 - \sqrt{x}} dx$