

## Math 199 CD2: Riemann Sum

October 28, 2021

1. Approximate the area underneath the curve using Riemann sum,
  - (a)  $f(x) = x^2 + 2, -2 \leq x \leq 1$ , with right-end points using 6 intervals
  - (b)  $f(x) = \sqrt{x+1}, -1 \leq x \leq 0$ , with left-end points using 4 intervals

2. Approximating the following integral with Riemann sum:

(a)  $\int_1^3 x^3 - 3dx$  with right-end points up to 3 intervals

(b) Using left end points and upto 5 intervals