

Quiz 1  
1/26/2023

1. Find the general antiderivative of the function  $f(x) = \frac{2}{x^3}$
2. Find the general antiderivative of the function  $f(x) = \sin(2x)$
3. Use geometry to evaluate  $\int_{-1}^1 \sqrt{1-x^2} dx$
4. Let  $f(x) = \frac{1}{x}$ . Evaluate the right-point Riemann sum  $R_3$  of  $f(x)$  on the interval  $[1, 4]$ .