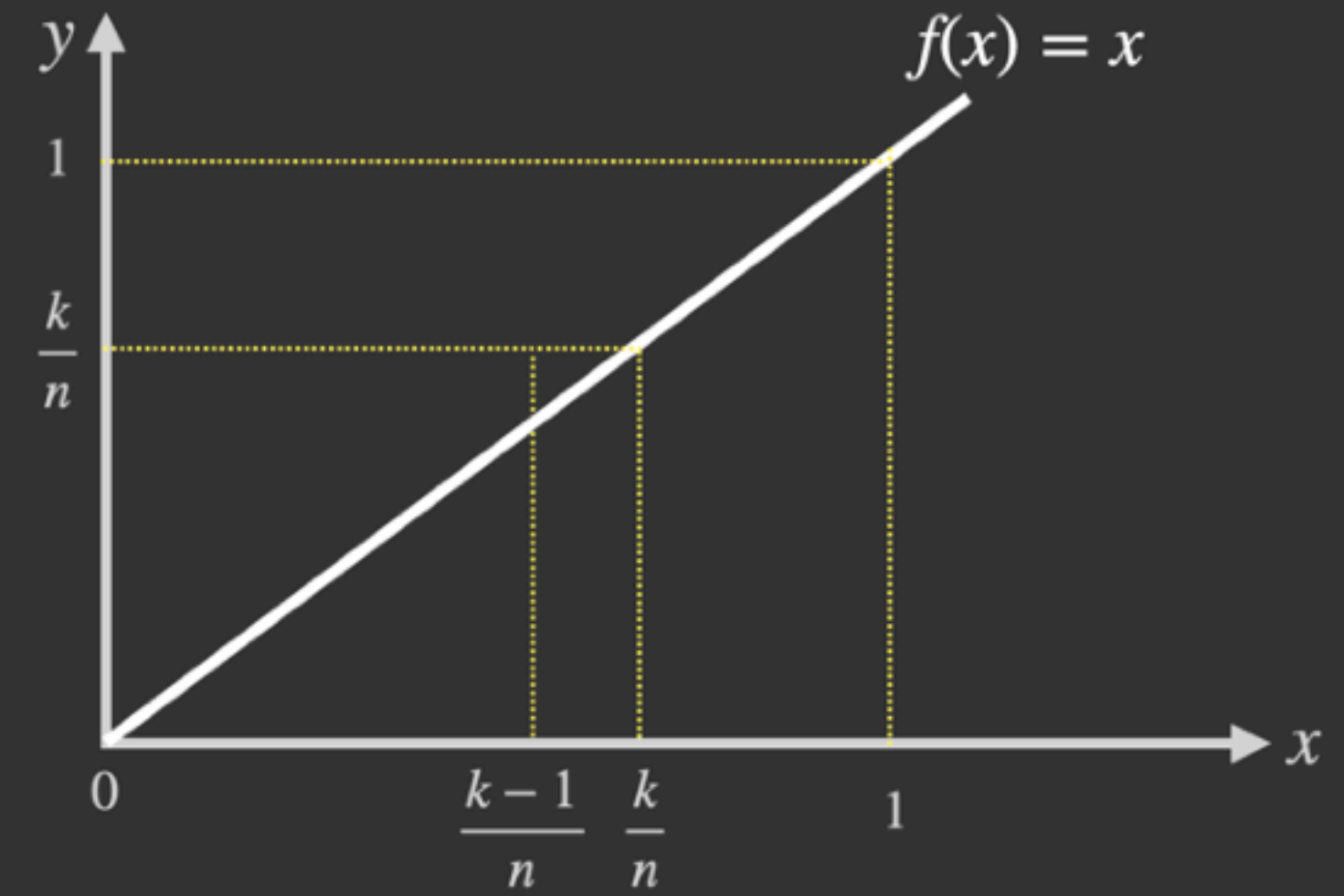


Rienmans

Riemann sum



- what happens to this expression when $n \rightarrow \infty$?

$$\frac{1}{2} \left(1 + \frac{1}{n} \right) \rightarrow \frac{1}{2} \text{ as } n \rightarrow \infty$$

- so as we get finer division of rectangles, the sum is approaching the exact area which is $\frac{1}{2}$

Riemann sum