

Quiz #28

Name: Key

You must show your work to get full credit.

1. The graph of $y = f(x)$ is below.

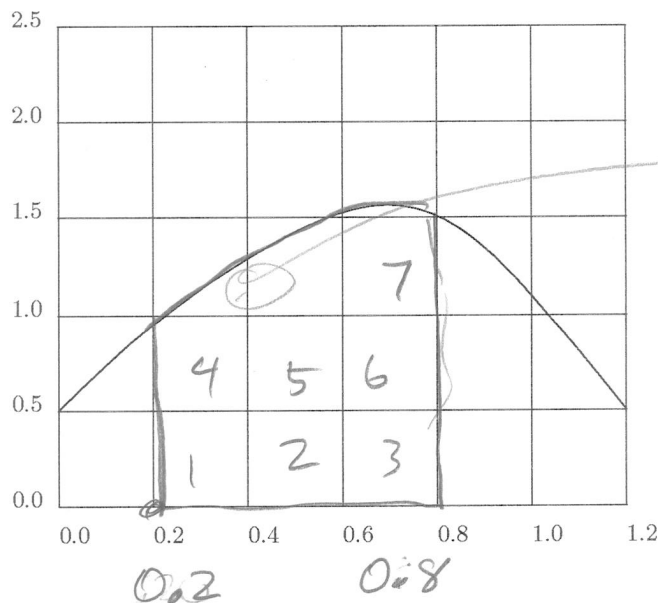
(a) How much area is in each box?

.1

(b) Estimate $\int_{0.2}^{0.8} f(x) dx$.

.82

$$\begin{aligned} 1 \text{ box} \\ &= (.5)(.02) \\ &= .01 \end{aligned}$$



about 1.2 boxes
so a total
of ≈ 8.2 boxes
 $= (8.2)(.01)$
 $= .82$

2. Use your calculator to compute $\int_{-1}^2 \frac{x-1}{x^2+3} dx$.

≈ -0.51732