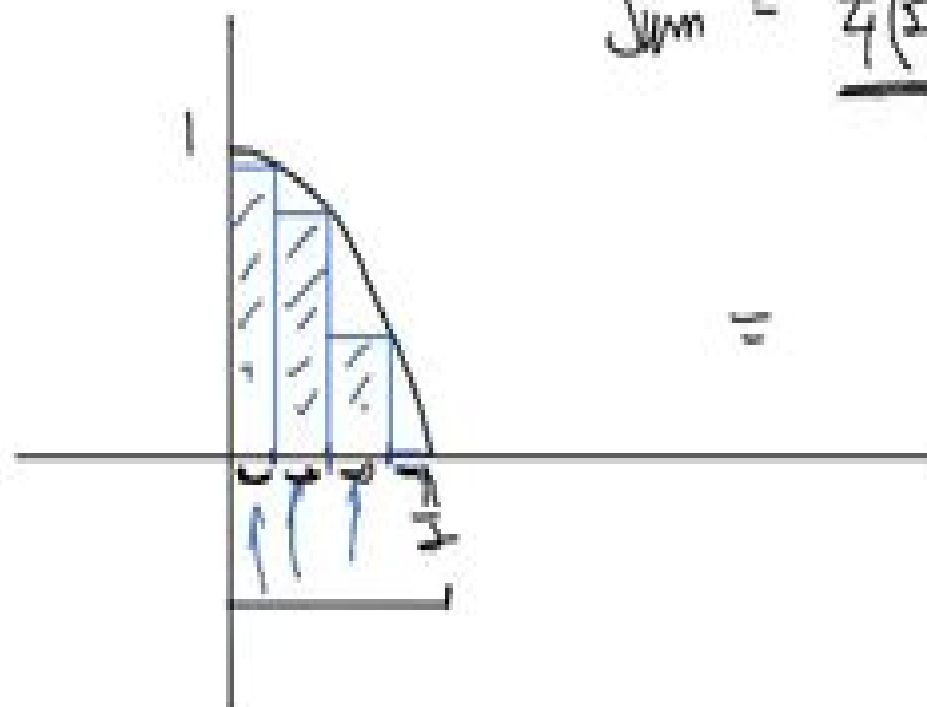


.) Estimate the area under the graph of $f(x) = \cos x$ from $x = 0$ to $x = \frac{\pi}{2}$ using four approximating rectangles and right endpoints. Sketch the graph and the rectangles. Is your estimate an underestimate or an overestimate?

.) Repeat part (a) using left endpoints.



$$\text{Sum} = \underline{\frac{1}{4} \left(\frac{\pi}{2} \right)} \left[\underset{\uparrow}{\cos\left(\frac{\pi}{8}\right)} + \underset{\uparrow}{\cos\left(\frac{2\pi}{8}\right)} + \underset{\uparrow}{\cos\left(\frac{3\pi}{8}\right)} \right]$$

=

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