

AP CALCULUS AB

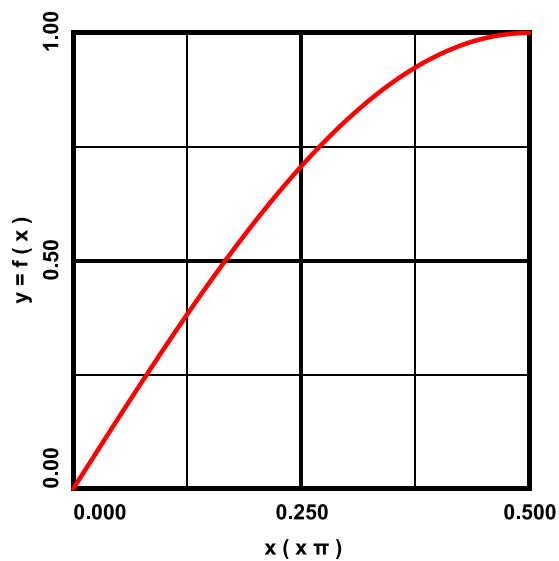
Estimate the area under $f(x) = \sin x$ on $x \in [0, \pi/2]$ using four equal subdivisions with

a) LRAM b) MRAM c) RRAM

Draw the rectangles used on the grids provided.
Also, answer the questions:

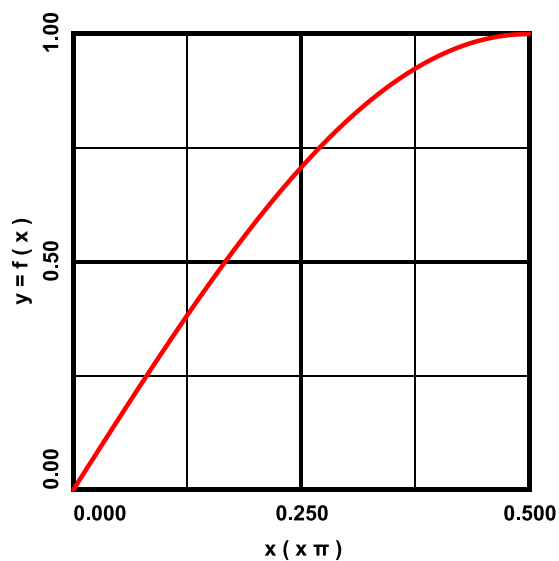
- 1) Which method underestimates the area?
- 2) Which method overestimates the area?

a) LRAM



ESTIMATING AREAS UNDER CURVES

b) MRAM



c) RRAM

