Calculus Eighth Edition

Larson/Hostetler/Edwards

4.2 Exercise 75 (*page 269*)

Consider the region bounded by the graphs of f(x) = 8x/(x + 1), x = 0, x = 4, and y = 0, as shown in the figure. (a) Redraw the figure, and complete and shade the rectangles representing the lower sum when n = 4. Find this lower sum. (b) Redraw the figure, and complete and shade the rectangles representing the upper sum when n = 4. Find this upper sum. (c) Redraw the figure, and complete and shade the rectangles whose heights are determined by the functional values at the midpoint of each subinterval when n = 4. Find this sum using the Midpoint Rule.



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