## Calculus Eighth Edition <br> Larson/Hostetler/Edwards

### 4.2 Exercise 75 (page 269)

Name $\qquad$
Date $\qquad$
Class $\qquad$
Instructor $\qquad$

Consider the region bounded by the graphs of $f(x)=8 x /(x+1), x=0, x=4$, 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.


