## Double Integrals over Rectangles

## Question

The figure shows the graph of $z=f(x, y)=3-\sqrt{y}$ over the region $\mathcal{R}=[-1,0] \times[0,3]$. Which is the best overestimate for the value of $\iint_{\mathcal{R}} f(x, y) d A$ ?

A. 9
B. -9
C. 3
D. $3(3-\sqrt{3})$

