

# My Avg. – 600

■ A continuous differentiable function  $f(x)$  is decreasing and concave up on  $[a,b]$ . If  $\int_a^b f(x) dx$  is estimated by averaging the left Riemann sum and the right Riemann sum using the same number of rectangles, the relation of this average to  $\int_a^b f(x) dx$

A) Underestimates  $\int_a^b f(x) dx$

B) Overestimates  $\int_a^b f(x) dx$

C) Accurately computes  $\int_a^b f(x) dx$

D) Depends on the number of rectangles