

# Docusaurus v2\rTest



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# template

## Title

Kyle Schwartz

216213621

Course

2021-08-11

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Let  $f : [a, b] \rightarrow \mathbb{R}$  be Riemann integrable. Let  $F : [a, b] \rightarrow \mathbb{R}$  be  $F(x) = \int_a^x f(t)dt$ . Then  $F$  is continuous, and at all  $x$  such that  $f$  is continuous at  $x$ ,  $F$  is differentiable at  $x$  with  $F'(x) = f(x)$ .