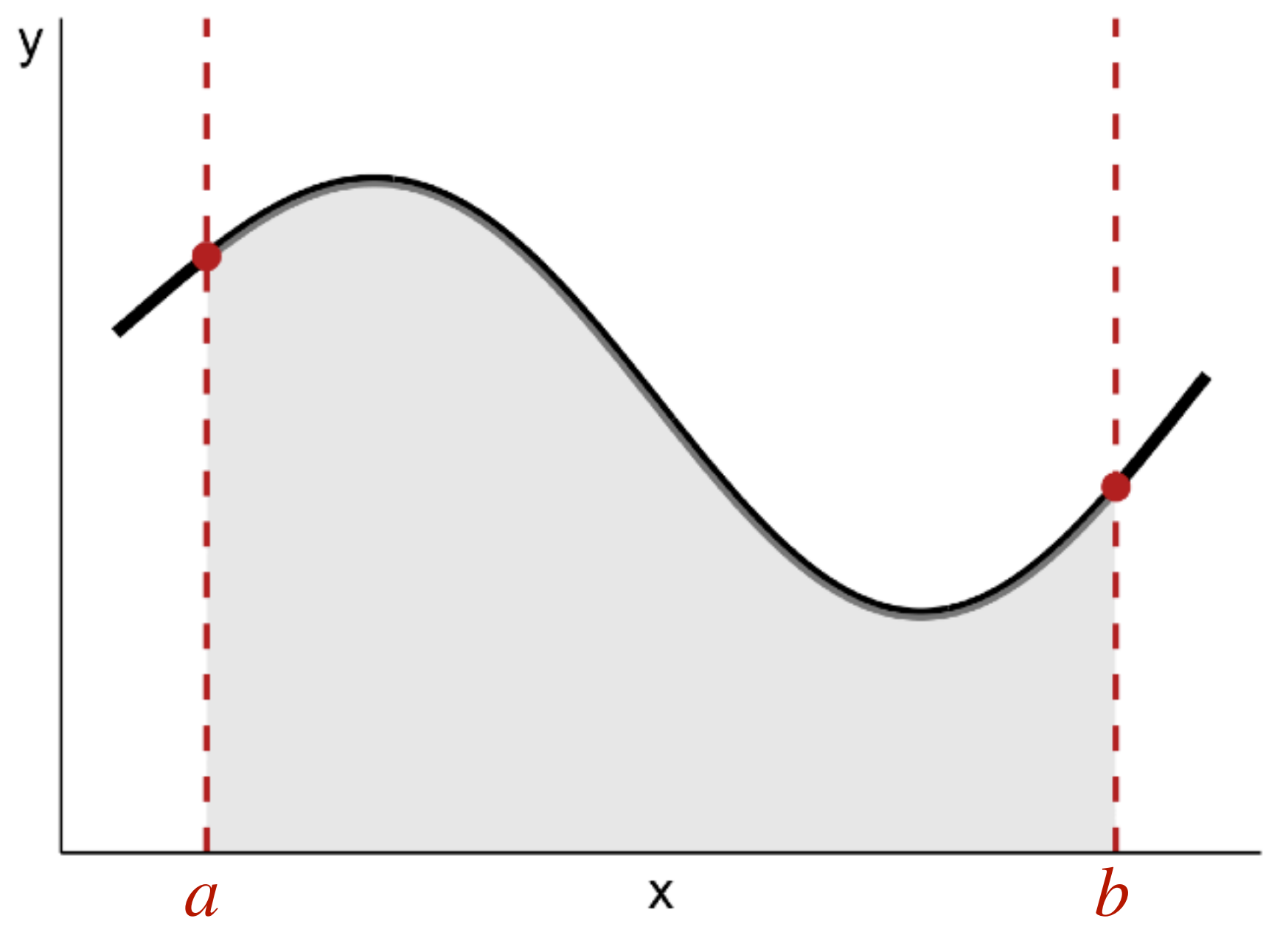
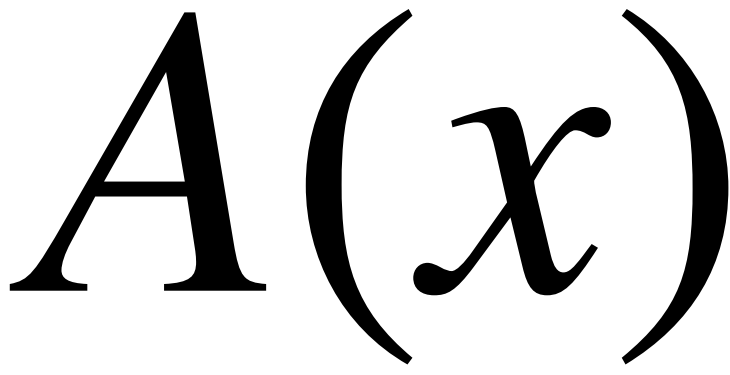
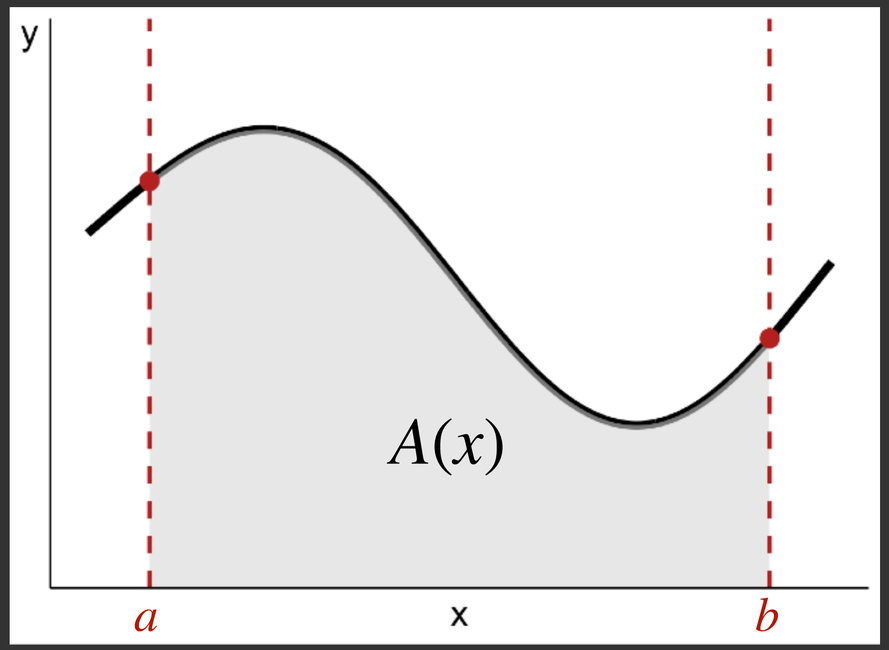

y
a
x
b


A(x)

area under the curve

area under the curve

- Let's call the curve we want to find the area under $y = f(t)$
- Let the area be a function of x and denote it $A(x)$
- If we know $A(x)$ then we know the are that is $A(b) - A(a)$
- I say $A'(x) = f(x)$, do you believe me? Let's take a look…



area under the curve