

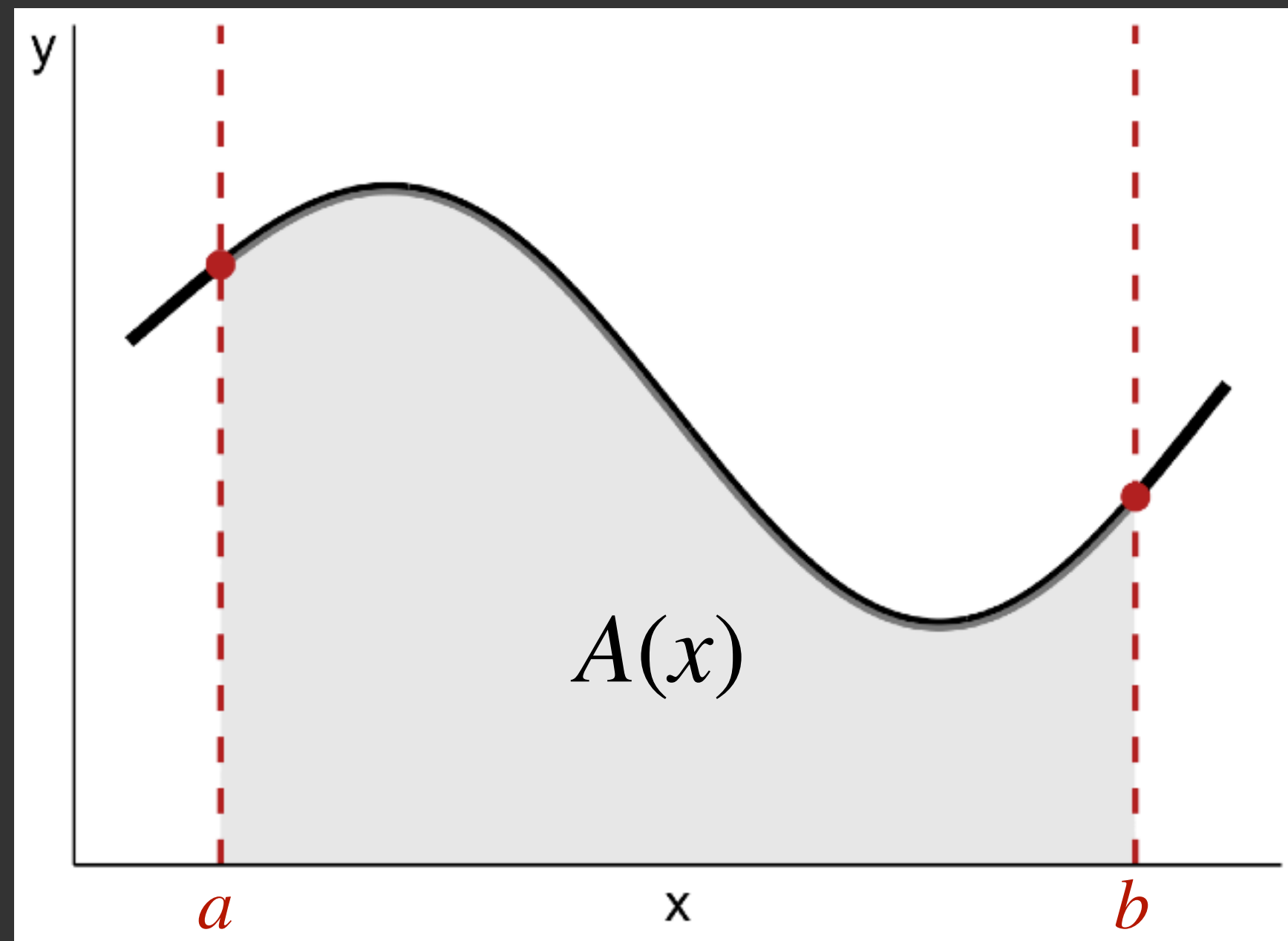
$A(x)$

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 area 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

