



12. Look closely at the graph of  $f(t)$ . Where is the minimum of  $f(t)$ ? How does this relate to the graph of  $h(x)$ ?

13. Describe in words how you see the functions  $f(t)$  and  $h(x)$  relate to each other.

14. Consider the function  $g(x) = \int_6^x f(t)dt$  for the same function  $f(t)$  graphed above. How will the graphs of  $k(x)$  and  $h(x)$  compare? Why?

15. Describe in words how you see the relationship between the functions  $f(t)$  and  $k(x) = \int_a^x f(t)dt$  where  $a$  is some constant.