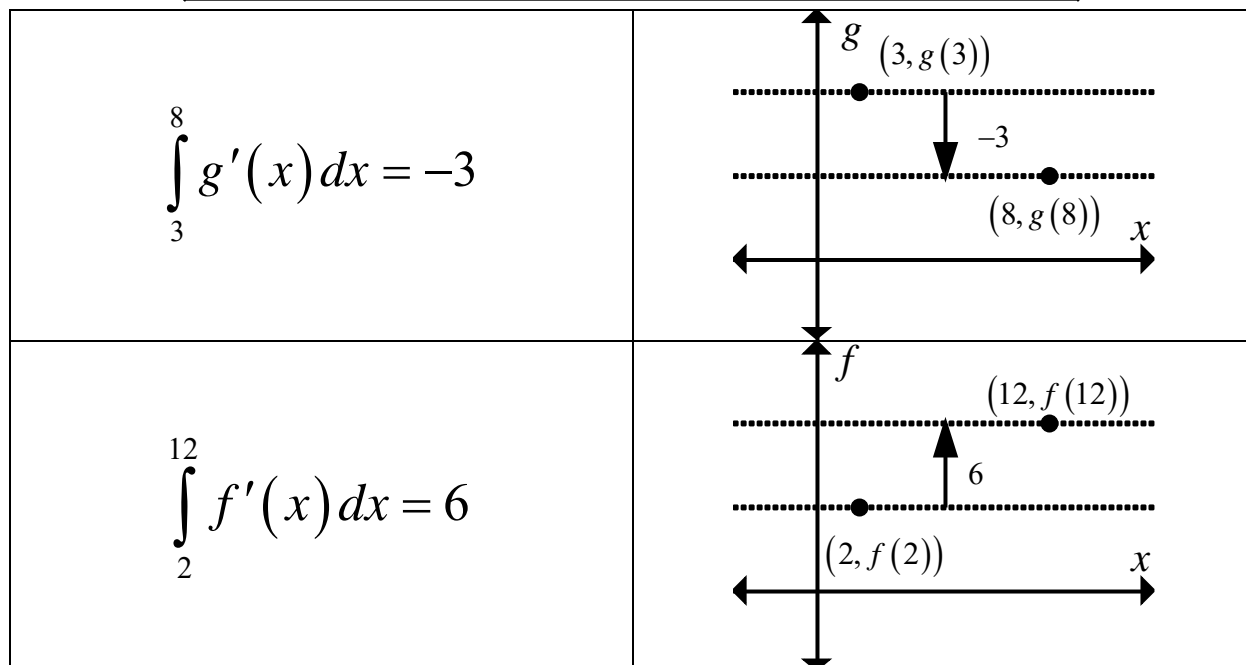


Using Net Change to find the value of a function:

$$\int_a^b f'(x) dx = \text{Net Change in } f(x) \text{ from } x = a \text{ to } x = b$$



This idea of net change can be used to find the value of a function $f(x)$ at any given x , $x = d$, provided that you are given:

- I. A starting point on the function: $(c, f(c))$
- II. The derivative of the function: $f'(x)$

$f'(x) = \sin^2(x)$ $f(0) = 3$	$f(7) =$
$g'(x) = \ln(x) + \arctan(x)$ $g(1) = -1$	$g(5) =$
$h'(x) = (x+1)e^{-x^2}$ $h(-1) = 7$	$h(-5) =$