1) $\operatorname{Draw} f(x)$

2) Draw a rectangle between the curves. The height of this rectangle is $f(x)-g(x)$ and the width is $\Delta x$. So its area is $(f(x)-g(x)) \Delta x$

$a$ and $b$ are the limits of integration. Many times these are found from solving $f(x)=g(x)$
3) Draw $g(x)$

4) Now add up infinitely many such rectangles as $\Delta x$ becomes very small and you get the integral and area shown.


$$
\text { Area }=\int_{a}^{b} f(x)-g(x) d x
$$

