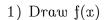
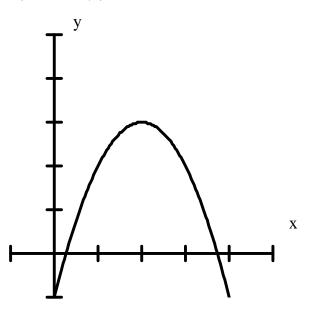
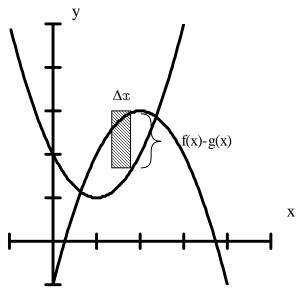
www.tomsmath..com

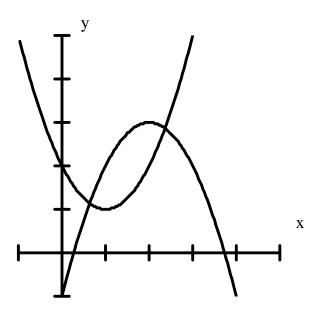




2) Draw a rectangle between the curves. The height of this rectangle is f(x)-g(x)and the width is Δx . So its area is $(f(x)-g(x))\Delta x$



a and b are the limits of integration. Many times these are found from solving f(x)=g(x) 2) Draw g(x)



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

