

### Area Between Curves

If  $f$  and  $g$  are continuous functions such that  $f(x) \geq g(x)$  on  $[a, b]$ , then area between the

curves is  $\int_a^b [f(x) - g(x)] dx$  or  $\int_a^b [top - bottom] dx$  or  $\int_c^d [right - left] dy$ .