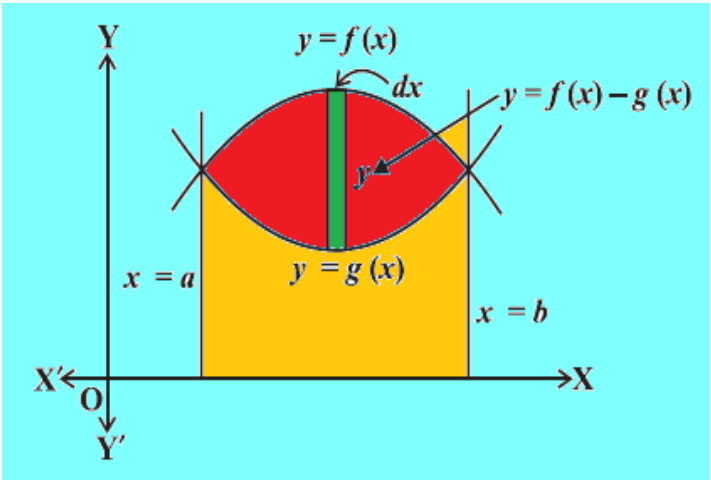
ATOMIC ENERGY EDUCATION SOCIETY, MUMBAI

CLASS: XII (MATHS) **HANDOUT: MODULE- 2/2**
CHAPTER-8 **TOPIC: APPLICATIONS OF INTEGRATION**

- The area of the region enclosed between two curves $y = f(x)$, $y = g(x)$ and the lines $x = a$, $x = b$ is given by the formula.

  Area = $\int_a^b [f(x) - g(x)]\, dx$, where $f(x) \le g(x)$ in $[a, b]$



- If $f(x) \ge g(x)$ in $[a, c]$ and $f(x) \le g(x)$ in $[c, b]$, $a < c < b$, then

  Area = $\int_a^c [f(x) - g(x)]\, dx + \int_c^b [g(x) - f(x)]\, dx$