THPORTANT FORMULAS WWW.

D'Average Value =
$$\frac{1}{b-a} \int_{a}^{b} f(x) dx$$

Fundimental therom = d f f(+) d+

of Colculus

Constant

diffrentation Cancels
the integration and subs
the Variable with the function
with Hultiplying and by the
deravative of the function.

 $e_{\chi}: \int_{A}^{x} \int_{C_{0}}^{x} c_{0} s + dx$

2 X Cos X

2)
$$\int [deravative] \int function \int \frac{h}{h} \frac{function}{h}$$

5)
$$\int \frac{devalutive}{the \frac{OF}{Voot}} = 2\sqrt{Function} + C$$

$$\int \frac{f(x)}{f(x)} = \ln |f(x)| + C$$

Area between Curves if y :: A= [[y - y] dx $\int \int X = A = \int [x_1 - x_2] dy$ * Cot sec ven SYMMEtric 4 the Origin Y-Axis