

DIFFERENTIAL CALCULUS

MARCON S. VALDERAMA

$$\int \frac{1}{1+u^2} du$$

$$\int \cos u \, du$$
$$= -\sin u + C$$



$$d(\tan^{-1} u) = \frac{1}{1+u^2} du$$
$$d(\sec^{-1} u) = \frac{1}{u\sqrt{u^2-1}} du$$

$$\int \cosh u \, du$$

$$\int \sinh u \, du$$

$$\int \operatorname{sech}^2 u \, du$$

$$\int \operatorname{csch}^2 u \, du$$

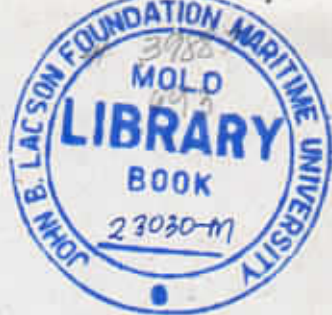
$$d(\cos^{-1} u)$$

$$d(\arctan u)$$

$$d(\operatorname{arccosh} u)$$



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