

TABLA DE DERIVADAS

Notación:

a = constante

u, v = funciones

$'$ = derivada

DERIVADAS:

$$a' = 0$$

$$u' = 1$$

$$(u + v)' = u' + v'$$

$$(u \cdot v)' = u' \cdot v + u \cdot v'$$

$$(u / v)' = (u' \cdot v - u \cdot v') / v^2$$

$$(a \cdot u)' = a \cdot u'$$

$$(u/a)' = u'/a$$

$$u^n = n \cdot u^{n-1} \cdot u'$$

$$(e^u)' = e^u \cdot u'$$

$$(L | u |)' = (1/u) \cdot u'$$

LOGARITMOS

$$L(e^a) = a$$

$$e^{La} = a$$

$$L 1 = 0$$

$$L(a \cdot b) = La + Lb$$

$$L(a/b) = La - Lb$$

$$L(a^n) = n \cdot La$$

PONTENCIACIÓN

$$a^0 = 1$$

$$a^{n+m} = a^n \cdot b^m$$

$$a^{n-m} = a^n / b^m$$

$$a^n \cdot b^n = (a \cdot b)^n$$

$$a^n / b^n = (a/b)^n$$