TABELLA DELLE DERIVATE

$D(c) = 0 \quad \forall c \in \mathbf{R}$
$D(mx + q) = m \quad \forall m, q \in \mathbf{R}$

$D(x^\alpha) = \alpha x^{\alpha-1} \quad \forall \alpha \in \mathbf{R}$

$D(\sqrt{x}) = \dfrac{1}{2\sqrt{x}}$

$D(|x|) = \dfrac{|x|}{x} = \begin{cases} 1 & \text{se } x > 0 \\ -1 & \text{se } x < 0 \end{cases}$

$D(a^x) = a^x \log a \quad \forall a > 0$
$D(e^x) = e^x$

$D(\log x) = \dfrac{1}{x}$

$D(\log_a x) = \dfrac{1}{x \log a} \quad \forall\, 0 < a \neq 1$

$D(\log |x|) = \dfrac{1}{x}$

$D(\text{sen} x) = \cos x$
$D(\cos x) = -\text{sen} x$

$D(\text{tg} x) = \dfrac{1}{\cos^2 x} = 1 + \text{tg}^2 x$

$D(\text{arcsen} x) = \dfrac{1}{\sqrt{1 - x^2}}$

$D(\arccos x) = -\dfrac{1}{\sqrt{1 - x^2}}$

$D(\text{arctg} x) = \dfrac{1}{1 + x^2}$