$$\lim_{x \to a} f\,(x) = f\,'(x) = \frac{dy}{dx}\;;\; a = \mathcal{R};\; y = f(x)$$

Derivadas de una función	Derivadas de una función de función $y = f(u)\;;\; u = f(x)$
1. $y = cte \qquad y' = 0$	
2. $y = x \qquad y' = 1$	2a. $y = u \qquad y' = u'$
3. $y = c\,.\,x \qquad y' = c$	3a. $y = c\,.\,u \qquad y' = c\,.\,u'$
Centro de Estudiantes Tecnológicos **A.E.T.I.**	4a. $y = u \pm v \pm w\ldots \qquad y' = u' \pm v' \pm uw' \ldots$
	5a. $y = u\,.\,v \qquad y' = u'.\,v + v'.\,u$
	6a. $y = \frac{u}{v} \qquad y' = \frac{u'.v - u.v'}{v^2}$
	7a. $y = u^v \qquad y' = u'.\left[v'\,\ln u + v\,\frac{u'}{u}\right]$
8. $y = x^m \qquad y' = m\,.\,x^{m-1}$	8a. $y = u^m \qquad y' = m\,.\,u^{m-1}.u'$
9. $y = \sqrt[m]{x} \qquad y' = \frac{1}{m\,.\,\sqrt[m]{x^{m-1}}}$	9a. $y = \sqrt[m]{u} \qquad y' = \frac{u'}{m\,.\,\sqrt[m]{x^{m-1}}}$
10. $y = \sqrt{x} \qquad y' = \frac{1}{2\,.\,\sqrt{x}}$	10a. $y = \sqrt{u} \qquad y' = \frac{u'}{2\,.\,\sqrt{u}}$
11. $y = \log_a(x) \qquad y' = \frac{1}{x}\,\log_a e$	11a. $y = \log_a(u) \qquad y' = \frac{u'}{u}\,\log_a e$
12. $y = \ln(x) \qquad y' = \frac{1}{x}$	12a. $y = \ln(u) \qquad y' = \frac{u'}{u}$
13. $y = a^x \qquad y' = a^x.\ln(a)$	13a. $y = a^u \qquad y' = a^u.u'.\ln(a)$
14. $y = e^x \qquad y' = e^x$	14a. $y = e^u \qquad y' = e^u.u'$
15. $y = \text{sen}(x) \qquad y' = \cos(x)$	15a. $y = \text{sen}(u) \qquad y' = u'.\cos(u)$
16. $y = \cos(x) \qquad y' = -\text{sen}(x)$	16.a $y = \cos(u) \qquad y' = -u'.\text{sen}(u)$
17. $y = \text{tg}(x) \qquad y' = \frac{1}{\cos^2 x} = 1 + \text{tg}^2\,x = \sec^2 x$	17a. $y = \text{tg}(u) \qquad y' = \frac{u'}{\cos^2 u} = u'.(1 + \text{tg}^2\,u) = u'.(\sec^2 u)$
18. $y = \text{cotg}(x) \quad y' = \frac{-1}{\text{sen}^2 x} = -(1 + \text{cotg}^2\,x) = -\text{cosec}^2\,x$	18a. $y = \text{cotg}(u) \quad y' = \frac{-u'}{\text{sen}^2 u} = -u'(1 + \text{cotg}^2\,u) = -u'.(\text{cosec}^2\,u)$
19. $y = \sec(x) \qquad y' = \sec(x).\ \text{tg}(x)$	19a. $y = \sec(u) \qquad y' = u'.\sec(u).\ \text{tg}(u)$
20. $y = \text{cosec}(x) \quad y' = -\text{cosec}(x).\ \text{cotg}(x)$	20a. $y = \text{cosec}(u) \quad y' = -u'.\text{cosec}(u).\text{cotg}(u)$
21. $y = \text{arcsen}(x) \qquad y' = \frac{1}{\sqrt{1-x^2}}$	21a. $y = \text{arcsen}(u) \qquad y' = \frac{u'}{\sqrt{1-u^2}}$
22. $y = \arccos(x) \qquad y' = \frac{-1}{\sqrt{1-x^2}}$	22a. $y = \arccos(u) \qquad y' = \frac{-u'}{\sqrt{1-u^2}}$
23. $y = \text{arctg}(x) \qquad y' = \frac{1}{1+x^2}$	23a. $y = \text{arctg}(u) \qquad y' = \frac{u'}{1+u^2}$
24. $y = \text{arcotg}(x) \qquad y' = \frac{-1}{1+x^2}$	24a $y = \text{arcotg}(u) \qquad y' = \frac{-u'}{1+u^2}$
25. $y = \text{arcsec}(x) \qquad y' = \frac{1}{x\,.\,\sqrt{x^2-1}}$	25a. $y = \text{arcsec}(u) \qquad y' = \frac{u'}{u\,.\,\sqrt{u^2-1}}$
26. $y = \text{arccosec}(x) \qquad y' = \frac{-1}{x\,.\,\sqrt{x^2-1}}$	26a. $y = \text{arccosec}(u) \qquad y' = \frac{-u'}{u\,.\,\sqrt{u^2-1}}$