Tabela de Derivadas

FUNÇÃO	DERIVADA
1. $f(x) = x^n$	1. $f'(x) = nx^{n-1}$
2. $f(x) = sen(x)$	2. $f'(x) = cos(x)$
3. $f(x) = cos(x)$	3. $f'(x) = -sen(x)$
4. $f(x) = tan(x)$	4. $f'(x) = sec^2(x)$
5. $f(x) = e^x$	5. $f'(x) = e^x$
6. $f(x) = ln(x)$	6. $f'(x) = \frac{1}{x}$
7. $f(x) = k$	7. $f'(x) = 0$
8. $f(x) = a^x$	8. $f'(x) = a^x ln(a)$
9. $f(x) = log_a x$	9. $f'(x) = \frac{1}{xln(a)}$
10. $f(x) = cotg(x)$	10. $f'(x) = -cosec^2(x)$
11. $f(x) = sec(x)$	11. $f'(x) = sec(x)\,tan(x)$
12. $f(x) = cosec(x)$	12. $f'(x) = -cosec(x)cotg(x)$
13. $f(x) = arcsen(x)$	13. $f'(x) = \frac{1}{\sqrt{1-x^2}}$
14. $f(x) = arccos(x)$	14. $f'(x) = -\frac{1}{\sqrt{1-x^2}}$
15. $f(x) = arctan(x)$	15. $f'(x) = \frac{1}{1+x^2}$
16. $f(x) = arccotg(x)$	16. $f'(x) = -\frac{1}{1+x^2}$
17. $f(x) = arcsec(x), \lvert x\rvert \geq 1$	17. $f'(x) = \frac{1}{\lvert x\rvert\sqrt{x^2-1}}, \lvert x\rvert > 1$
18. $f(x) = arccosec(x), \lvert x\rvert \geq 1$	18. $f'(x) = -\frac{1}{\lvert x\rvert\sqrt{x^2-1}}, \lvert x\rvert > 1$
REGRA DO PRODUTO	
$f(x) = u(x).v(x)$	$f'(x) = u'(x).v(x) + u(x).v'(x)$
REGRA DO QUOCIENTE	
$f(x) = \frac{u(x)}{v(x)}$	$f'(x) = \frac{u'(x).v(x) - v'(x).u(x)}{v(x)^2}$
REGRA DA CADEIA	
$f(x) = u\big(v(x)\big)$	$f'(x) = u'\big(v(x)\big).v'(x)$