Cálculo de derivadas

1	$y = x^2 - 3x + 1$	$y' = 2x - 3$	2	$y = x^3 - 3x^2 + 4x - 1$	$y' = 3x^2 - 6x + 4$
3	$y = \sqrt{x^2 - 1}$	$y' = \frac{x}{\sqrt{x^2 - 1}}$	4	$y = \sqrt[3]{1 - x^3}$	$y' = \frac{-x^2}{\sqrt[3]{(1 - x^3)^2}}$
5	$y = \ln(x - 1)$	$y' = \frac{1}{x - 1}$	6	$y = \ln(x^3 - 3x^2 + 1)$	$y' = \frac{3x^2 - 6x}{x^3 - 3x^2 + 1}$
7	$y = e^{x^3 - x}$	$y' = (3x^2 - 1)e^{x^3 - x}$	8	$y = e^{\sqrt{x}}$	$y' = \frac{e^{\sqrt{x}}}{2\sqrt{x}}$
9	$y = 3^{2x^2 - 3x + 1}$	$y' = (4x - 3).3^{2x^2 - 3x + 1}.\ln 3$	10	$y = 5^{\ln(x^2 - 1)}$	$y' = \frac{2x}{x^2 - 1}.5^{\ln(x^2 - 1)}.\ln 5$
11	$y = \text{sen}(x^2 - 3x + 1)$	$y' = (2x - 3).\cos(x^2 - 3x + 1)$	12	$y = \cos e^{2x}$	$y' = -2.e^{2x}.\text{sen}\, e^{2x}$
13	$y = \tan\sqrt{x^2 - 1}$	$y' = \frac{1}{\cos^2\sqrt{x^2 - 1}}.\frac{x}{\sqrt{x^2 - 1}}$	14	$y = \text{cotan}[\ln(3^x)]$	$y' = \frac{-1}{\text{sen}^2\ln(3^x)}.\ln 3$
15	$y = x.\text{senx}$	$y' = \text{senx} + x.\cos x$	16	$y = x^2.e^x$	$y' = 2x.e^x + x^2.e^x = (2x + x^2).e^x$
17	$y = \sqrt{x}.\ln x$	$y' = \frac{1}{2\sqrt{x}}.\ln x + \frac{\sqrt{x}}{x}$	18	$y = \frac{x^2 - 1}{x^2 + 1}$	$y' = \frac{4x}{(x^2 + 1)^2}$
19	$y = \frac{x^2 - x}{x^2 + x}$	$y = \frac{2x^2}{(x^2 + x)^2}$	20	$y = \frac{x + \text{senx}}{\text{senx}}$	$y' = \frac{\text{senx} - x.\cos x}{(\text{senx})^2}$
21	$y = \text{sen}^2x^2$	$y' = 4.\text{senx}^2.x.\cos x^2$	22	$y = (x^2 - 3x + 1)^6$	$y' = 6.(x^2 - 3x + 1)^5.(2x - 3)$
23	$y = \ln\sqrt{\frac{x + 1}{x - 1}}$	$y' = \frac{-1}{x^2 - 1}$	24	$y = \ln\sqrt[5]{\frac{x^2 + 1}{x^2 - 1}}$	$y' = \frac{1}{5}\frac{-4x}{x^4 - 1}$
25	$y = \arctan(x^2 - 1)$	$y = \frac{2x}{1 + (x^2 - 1)^2}$	26	$y = x.\text{senx}.\cos x$	$y' = \text{senx}.\cos x + x.\cos^2 x - x.\text{sen}^2 x$
27	$y = (x.\text{senx})^3$	$y' = 3.(x.\text{senx})^2.(\text{senx} + x.\cos x)$	28	$y = 4^{x.e^x}$	$y' = (e^x + x.e^x).4^{x.e^x}.\ln 4$
29	$y = \ln(\text{sen}(\ln x))$	$y' = \frac{1}{x.\tan(\ln x)}$	30	$y = \frac{x^2}{\frac{\text{senx}}{\cos x}}$	$y' = \frac{2.x.\text{senx}.\cos x - x^2.(\cos^2 x - \text{sen}^2 x)}{(\text{senx}.\cos x)^2}$