Resultados

Encuentra todas las derivadas resueltas a continuación:

1	$f(x) = 0$	$f'(x) = 0$
2	$f(x) = -7$	$f'(x) = 0$
3	$f(x) = -7x$	$f'(x) = -7$
4	$f(x) = -5x+2$	$f'(x) = -5$
5	$f(x) = x^5 - x^3 + 3$	$f'(x) = 5x^4 - 3x^2$
6	$f(x) = 2x^7 - 3x^6 + 3x^3 - 4x^2 - 7$	$f'(x) = 14x^6 - 18x^{5+} 9x^2 - 8x$
7	$f(x) = \frac{x-3}{2}$	$f(x) = \frac{x}{2} - \frac{3}{2}$ $f'(x) = \frac{1}{2}$
8	$f(x) = -\frac{x^3+x-1}{2}$	$f(x) = -\frac{x^3}{2} - \frac{x}{2} + \frac{1}{2}$ $f'(x) = -\frac{3x^2}{2} - \frac{1}{2}$
9	$f(x) = -\frac{3}{2}x^3 + \frac{2}{5}x^2 - 4$	$f'(x) = -\frac{9}{2}x^2 + \frac{4}{5}x$
10	$f(x) = \frac{3}{x^2}$	$f(x) = 3.x^{-2}$ $f'(x) = -6x^{-3} = \frac{-6}{x^3}$
11	$f(x) = -\frac{2}{x^3} + \frac{3}{x^2} - 4x$	$f(x) = -2.x^{-3} + 3.x^{-2} - 4x$ $f'(x) = +6.x^{-4} - 6.x^{-3} - 4$ $f'(x) = \frac{6}{x^4} - \frac{6}{x^3} - 4$

12	$\mathbf{f(x)=\frac{x^2-1}{(x+1)^2}}$	$f(x)=\frac{(x+1)\ .(x-1)}{(x+1)\ .(x+1)}$ $f(x)=\frac{(x-1)}{(x+1)}$ $f'(x)=\frac{(x-1)'\ .(x+1)\ -(x-1)\ .(x+1)'}{(x+1)^2}$ $f'(x)=\frac{(x+1)\ -(x-1)}{(x+1)^2}=\frac{x+1-x+1}{(x+1)^2}=\frac{2}{(x+1)^2}$ $\mathbf{f'(x)=\frac{2}{(x+1)^2}}$
13	$\mathbf{f(x)=\frac{5x^4-3x^3}{x5}}$	$f(x)=+5\frac{x^4}{x^5}-3\frac{x^3}{x^5}$ $f'(x)=+5x^{4-5}-3x^{3-5}$ $f(x)=+5x^{-1}-3x^{-2}$ $f'(x)=-5x^{-2}+6x^{-3}$ $\mathbf{f'(x)=-\frac{5}{x^2}+\frac{6}{x^3}}$
14	$\mathbf{f(x)=\sqrt{x^3}}$	$f(x)=x^{\frac{3}{2}}$ $f'(x)=\frac{3}{2}x^{\frac{3}{2}-\frac{2}{2}}$ $f'(x)=\frac{3}{2}x^{\frac{1}{2}}$ $\mathbf{f'(x)=\frac{3}{2}\sqrt[2]{x}}$

15	$\mathbf{f(x) = \frac{1}{\sqrt{x^3}}}$	$f(x) = \frac{1}{x^{\frac{3}{2}}}$ $f(x) = x^{-\frac{3}{2}}$ $f'(x) = -\frac{3}{2} x^{-\frac{3}{2} - \frac{2}{2}}$ $f'(x) = -\frac{3}{2} x^{-\frac{5}{2}}$ $f'(x) = -\frac{3}{2} \frac{1}{2\sqrt{x^5}}$ $\mathbf{f'(x) = -\frac{3}{2} \frac{1}{x^2 \sqrt{x}}}$
16	$\mathbf{f(x) = \sqrt{x^3} - \sqrt[3]{x^5}}$	$f(x) = x^{\frac{3}{2}} - x^{\frac{5}{3}}$ $f'(x) = \frac{3}{2} . x^{\frac{3}{2} - \frac{2}{2}} - \frac{5}{3} x^{\frac{5}{3} - \frac{3}{3}}$ $f'(x) = \frac{3}{2} . x^{\frac{1}{2}} - \frac{5}{3} x^{\frac{2}{3}}$ $\mathbf{f'(x) = \frac{3}{2} . \sqrt{x} - \frac{5}{3} \sqrt[3]{x^2}}$
17	$\mathbf{f(x) = -3\sqrt{x} - 2\sqrt[3]{x^2}}$	$f(x) = -3x^{\frac{1}{2}} - 2x^{\frac{2}{3}}$ $f'(x) = -\frac{3}{2} x^{\frac{1}{2} - \frac{2}{2}} - \frac{4}{3} x^{\frac{2}{3} - \frac{3}{3}}$ $f'(x) = -\frac{3}{2} . x^{-\frac{1}{2}} - \frac{4}{3} x^{-\frac{1}{3}}$ $\mathbf{f'(x) = \frac{-3}{2\sqrt{x}} - \frac{4}{3\sqrt[3]{x}}}$

18	$\mathbf{f(x) = -\frac{2}{3}\sqrt{x^3} - \sqrt{15x} - \sqrt[3]{x^5}}$	$f(x) = -\frac{2}{3}x_2 - 15^2 x_2 - x_3$ $f'(x) = -\frac{2}{3}.\frac{3}{2}x_2^{\frac{3}{2}-\frac{2}{2}} - \sqrt{15}\frac{1}{2}x_2^{\frac{1}{2}-\frac{2}{2}} - \frac{5}{3}x_3^{\frac{5}{3}-\frac{3}{3}}$ $f'(x) = -.x_2^{\frac{1}{2}} - \sqrt{15}\frac{5}{3}x^{-\frac{1}{2}} - x_3^{\frac{2}{3}}$ $\mathbf{f'(x) = -\sqrt{x} - \frac{\sqrt{15}}{2\sqrt{x}} - \frac{5}{3}\sqrt[3]{x^2}}$
19	$\mathbf{f(x) = -\frac{3}{2}\sqrt{x^3} - 2x^5 - 5x^2}$	$f(x) = -\frac{3}{2}x^{\frac{3}{2}} - 2x^5 - 5x^2$ $f'(x) = -\frac{3}{2}.\frac{3}{2}x^{\frac{1}{2}} - 10x^4 - 10x$ $\mathbf{f'(x) = -\frac{9}{4}\sqrt{x} - 10x^4 - 10x}$
20	$\mathbf{f(x) = \frac{\sqrt{x}\sqrt[3]{x}}{\sqrt[2]{x}}}$	$\mathbf{f(x) = \frac{\sqrt{x}\sqrt[3]{x}}{\sqrt[2]{x}} = \frac{x^{\frac{1}{2}}.x^{\frac{1}{3}}}{x^{\frac{1}{2}}} = \frac{x^{\frac{1}{2}+\frac{1}{3}}}{x^{\frac{1}{2}}} = \frac{x^{\frac{5}{6}}}{x^{\frac{1}{2}}}}$ $\mathbf{f(x) = x_6^{\frac{5}{6}-\frac{1}{2}} = x_6^{\frac{2}{6}}}$ $f'(x) = \frac{2}{t}.x^{\frac{4}{u}-} = \frac{2}{t}.x^{-\frac{2}{3}}$ $\mathbf{f'(x) = \frac{1}{3\sqrt[3]{x^2}}}$

21	$\mathbf{f(x) = \frac{2\sqrt{x} + \sqrt[3]{x}}{\sqrt[2]{x}}}$	$f(x) = \frac{2\sqrt{x} + \sqrt[3]{x}}{\sqrt[2]{x}} = \frac{2\sqrt{x}}{\sqrt[2]{x}} + \frac{\sqrt[3]{x}}{\sqrt[2]{x}}$ $f(x) = \frac{2.x^{\frac{1}{2}}}{x^{\frac{1}{2}}} + \frac{x^{\frac{1}{3}}}{x^{\frac{1}{2}}}$ $f(x) = 2 + x^{\frac{1}{u}}$ $f'(x) = -\frac{1}{t} x^{\frac{v}{u}}$ $\mathbf{f'(x) = -\frac{1}{6x^6\sqrt{x}}}$
22	$\mathbf{f(x) = (x^5 - x^3 + 3)^4}$	$f'(x) = \mathbf{4.(x^5 - x^3 + 3)^3.(5x^4 - 3x^2)}$
23	$\mathbf{f(x) = (x^2 - 2)^2}$	$f'(x) = 2.(x^2 - 2).(2x)$ $f'(x) = 4x.(x^2-2)$ $\mathbf{f'(x) = 4x^3 - 8x}$
24	$\mathbf{f(x) = (x - 1).(x + 1)^2}$	$f'(x) = (x + 1)^2 + (x-1).2.(x + 1)$ $f'(x) = x^2 + 2x + 1 + 2x^2-2$ $\mathbf{f'(x) = 3x^2 + 2x - 1}$
25	$\mathbf{f(x) = (x^5 - x^3 + 3)^4}$	$\mathbf{f(x) = (x^5 - x^3 + 3)^4}$ $\mathbf{f'(x) = 4.(x^5 - x^3 + 3)^3.(5x^4 - 3x^2)}$

26	$\mathbf{f(x) = \sqrt{((x^5 - x^3 + 3))}}$	$f(x) = ((x^5 - x^3 + 3))^{\frac{1}{2}}$ $f'(x) = \frac{1}{2}((x^5 - x^3 + 3))^{-\frac{1}{2}}.(5x^4 - 3x^2)$ $\mathbf{f'(x) = \frac{(5x^4 - 3x^2)}{2.\sqrt{x^5 - x^3 + 3}}}$
27	$\mathbf{f(x) = \sqrt[5]{x^5 - x^3 + 3}}$	$f(x) = ((x^5 - x^3 + 3))^{\frac{1}{5}}$ $f'(x) = \frac{1}{5}((x^5 - x^3 + 3))^{-\frac{4}{5}}.(5x^4 - 3x^2)$ $\mathbf{f'(x) = \frac{(5x^4 - 3x^2)}{5.\sqrt[5]{(x^5 - x^3 + 3)^4}}}$
28	$\mathbf{f(x) = \frac{5}{\sqrt{x^5 - x^3 + 3}}}$	$f(x) = ((x^5 - x^3 + 3))^{-\frac{1}{5}}$ $f'(x) = -\frac{1}{5}((x^5 - x^3 + 3))^{-\frac{u}{5}}.(5x^4 - 3x^2)$ $\mathbf{f'(x)}$ $= -\frac{(5x^4 - 3x^2)}{5.\sqrt[5]{(x^5 - x^3 + 3)^6}} = -\frac{(5x^4 - 3x^2)}{5.(x^5 - x^3 + 3)\sqrt[5]{(x^5 - x^3 + 3)}}$

29	$\mathbf{f(x)=\sqrt[3]{\frac{x5-x3+3}{x^2}}}$	$f(x)=\left(\left(\frac{x5-x3+3}{x^2}\right)\right)^{\frac{1}{3}}$ $f'(x)$ $=\frac{1}{3\sqrt[3]{\left(\frac{x5-x3s3}{x^2}\right)^2}}.\frac{(5.x^4-3x^2)x^2-(x5-x3+3)2x}{x^4}$ $=\frac{1}{3\sqrt[3]{\left(\frac{x5-x3s3}{x^2}\right)^2}}.\frac{(3.x^5-x^3-6)}{x^3}$
30	$\mathbf{f(x)=\sqrt[5]{\frac{x^2+x}{x+1}}}$	$f(x)=\sqrt[5]{\frac{x^2+x}{x+1}}=\sqrt[5]{\frac{x.(x+1)}{x+1}}=\sqrt[5]{x}$ $f'(x)=\frac{1}{5\sqrt[5]{x^4}}$
31	$\mathbf{f(x)=\sqrt{\frac{x^2+2x+1}{x^2-1}}}$	$f(x)=\sqrt{\frac{x^2+2x+1}{x^2-1}}=\sqrt{\frac{(x+1).(x+1)}{(x+1).(x-1)}}=\sqrt{\frac{(x+1)}{(x-1)}}$ $f'(x)=\frac{1}{2\sqrt{\frac{(xs1)}{(x-1)}}}\frac{x-1-x-1}{(x-1)^2}=-\frac{1}{\sqrt{\frac{(xs1)}{(x-1)}}}\frac{1}{(x-1)^2}=-\frac{1}{\sqrt{x^2-1}}$ $\frac{1}{(x-1)}$ $f'(x)=\frac{-1}{\sqrt{x^2-1}.(x-1)}$

32	$\mathbf{f(x)=\sqrt{\frac{x^2-1}{x^2-2x+1}}}$	$f(x)=\sqrt{\frac{x^2-1}{x^2-2x+1}}=\sqrt{\frac{(x+1).(x-1)}{(x-1).(x-1)}}=\sqrt{\frac{(x+1)}{(x-1)}}$ $f'(x)=\frac{1}{2\sqrt{\frac{(xs1)}{(x-1)}}}\frac{x-1-x-1}{(x-1)^2}=-\frac{1}{\sqrt{\frac{(xs1)}{(x-1)}}}\frac{1}{(x-1)^2}=-\frac{1}{\sqrt{x^2-1}}$ $\frac{1}{(x-1)}$ $\mathbf{f'(x)=\frac{-1}{\sqrt{x^2-1}.(x-1)}}$
33	$\mathbf{f(x)=e^{x+1}}$	$\mathbf{f'(x)=e^{x+1}}$
34	$\mathbf{f(x)=-3.e^{x+1}}$	$\mathbf{f'(x)=-3.e^{x+1}}$
35	$\mathbf{f(x)=7.e^{x2+1}}$	$\mathbf{f'(x)=7.e^{x2+1}.2x=14x.e^{x2}}$
36	$\mathbf{f(x)=-3.e^{x2+x-1}}$	$\mathbf{f'(x)=-3.(2x+1)e^{x2+x-1}}$
37	$\mathbf{f(x)=\sqrt{e^x}}$	$\mathbf{f'(x)=\frac{e^x}{2\sqrt{e^x}}}$
38	$\mathbf{f(x)=\sqrt{3e^{x+1}}}$	$\mathbf{f'(x)=\frac{3e^{xs1}}{2\sqrt{3e^{xs1}}}}$
39	$\mathbf{f(x)=-\frac{2}{\sqrt{e^x}}}$	$f(x)=-2.(e^x)^{-\frac{1}{2}}$ $f'(x)=\frac{+2}{2}.(e^x)^{-\frac{3}{2}}.e^x$ $\mathbf{f'(x)=\frac{1}{\sqrt{e^x}}}$
40	$\mathbf{f(x)=e^{x+1}-3e^x+2e^{x3}}$	$\mathbf{f'(x)=e^{x+1}-3e^x+6x^2e^{x3}}$
41	$\mathbf{f(x)=3^{2x+1}}$	$\mathbf{f'(x)=3^{2x+1}.\ln 3.2}$
42	$\mathbf{f(x)=7^{x-1}}$	$\mathbf{f'(x)=7^{x-1}.\ln 7}$

43	$\mathbf{f(x) = 7^{x2-1}}$	$\mathbf{f'(x) = 7^{x2-1}.\ln 7\ .\ 2x}$
44	$\mathbf{f(x) = -\frac{1}{\sqrt{2^x}}}$	$\mathbf{f(x) = -(2^x)^{-\frac{1}{2}}}$ $f'(x) = \frac{1}{2}(2^x)^{-\frac{3}{2}}\ln 2\ 2^x$ $\mathbf{f'(x) = \frac{\ln 2}{2\sqrt{2^x}}}$
45	$\mathbf{f(x) = 2^{x+1} - 3.5^x}$	$\mathbf{f'(x) = 2^{x+1}.\ln 2 - 3.(5^x.\ln 5)}$
46	$\mathbf{f(x) = (2^{x+1} - 3.5^x)^3}$	$\mathbf{f'(x) = 3.(2^{x+1} - 3.5^x)^2.(2^{x+1}.\ln 2 - 3.(5^x.\ln 5))}$
47	$\mathbf{f(x) = \sqrt{3^{x+1}}}$	$f(x) = (3^{x+1})^{\frac{1}{2}}$ $f'(x) = \frac{1}{2}.(3^{x+1})^{-\frac{1}{2}}.3^{x+1}.\ln 3$ $\mathbf{f'(x) = \frac{3^{xs1}\ln 3}{2\sqrt{3^{xs1}}}}$
48	$\mathbf{f(x) = 7^{\sqrt{x+1}}}$	$\mathbf{f'(x) = 7^{\sqrt{x+1}}.\ln 7.\frac{1}{2\sqrt{x+1}}}$
49	$\mathbf{f(x) = \frac{e^{3x}+e^{x^2}}{3}}$	$f'(x) = \frac{e^{3x}.3}{3} + \frac{e^{x^2}.2x}{3}$ $\mathbf{f'(x) = e^{3x} + \frac{e^{x^2}.2x}{3}}$

50	$\mathbf{f(x) = \frac{7^{x^2}}{x^3}}$	$f'(x) = \frac{z^{x^2}.\{\mid z.2x.x^3 - z^{x^2}.3x^2}{x^u}$ $\mathbf{f'(x) = \frac{7^{x^2}.(\ln\ 7.2.x^2 - 3)}{x^4}}$
51	$\mathbf{f(x) = \frac{e^{x^2}}{x^3}}$	$f'(x) = \frac{e^{x^2}.2x.x^3 - e^{x^2}.3x^2}{x^u} = \frac{x^2(e^{x^2}.2.x^2 - e^{x^2}.3)}{x^u} =$ $\frac{(e^{x^2}.2.x^2 - e^{x^2}.3)}{x^4}$ $\mathbf{f'(x) = \frac{e^{x^2}.(2.x^2 - 3)}{x^4}}$
52	$\mathbf{f(x) = \sqrt{\frac{7^{x^2}}{x^3}}}$	$\mathbf{f'(x) = \frac{1}{2.\sqrt{\frac{7^{x^2}}{x^3}}} . \frac{7^{x^2}.\ln\ 7.2x.x^3 - 7^{x^2}.3x^2}{x^6}}$
53	$\mathbf{f(x) = \ln(x+3)}$	$\mathbf{f'(x) = \frac{1}{x+3}}$
54	$\mathbf{f(x) = 7x + \ln(x-3)}$	$\mathbf{f'(x) = 7 + \frac{1}{x-3}}$
55	$\mathbf{f(x) = \ln(x^2 - 3x + 2)}$	$\mathbf{f'(x) = \frac{1}{x^2-3x+2} . (2x-3)}$
56	$\mathbf{f(x) = \frac{1}{\ln(x-1)}}$	$\mathbf{f'(x) = \frac{-\frac{1}{(x\}1)}}{(\ln(x-1))^2} = -\frac{1}{(x-1)((\ln(x-1))^2)}}$

57	$\mathbf{f(x) = \ln \sqrt{\frac{x^2-1}{x^2-2x+1}}}$	$f(x) = \ln \sqrt{\frac{x^2-1}{x^2-2x+1}} =$ $\ln \sqrt{\frac{(x-1).(x+1)}{(x-1).(x-1)}} = \ln \sqrt{\frac{(x+1)}{(x-1)}}$ $f'(x) = \frac{1}{\sqrt{\frac{(xs1)}{(x-1)}}} \cdot \frac{1}{2\sqrt{\frac{(xs1)}{(x-1)}}} \frac{x-1-x-1}{(x-1)^2} = ..$ $\frac{-2}{\frac{(xs1)}{(x-1)}.2.(x-1)^2} = -\frac{1}{x^2-1}$ $\mathbf{f'(x) = -\frac{1}{x^2-1}}$
58	$\mathbf{f(x) = \ln\left(\sqrt{((x^5 - x^3 + 3))}\right)}$	$f'(x) = \frac{1}{\sqrt{(x^5 - x^3+3)}} \cdot \frac{1}{2\sqrt{(x^5 - x^3+3)}} (5x^4-3x^2)$ $\mathbf{f'(x) = \frac{5x^4-3x^2}{(x^5 - x^3+3)}}$
59	$\mathbf{f(x) = \ln\left(\frac{e^x-1}{e^x+1}\right)}$	$f'(x) = \frac{1}{\frac{e^x-1}{e^x s1}} \cdot \frac{e^x(e^x+1) - e^x.(e^x-1)}{(e^x+1)^2}$ $\mathbf{f'(x) = \frac{+2e^x}{e^{2x}-1}}$
60	$\mathbf{f(x) = \log_3(x+2)}$	$f'(x) = \frac{u}{u} \log_a e$ $f'(x) = \frac{1}{x+2} \log_3 e$
61	$\mathbf{f(x) = \log(x-3)^2}$	$\mathbf{f'(x) = \frac{2.(x-3)}{(x-3)^2.Ln10}}$
62	$\mathbf{f(x) = sen(x+1)}$	$\mathbf{f'(x) = \cos(x+1)}$

63	$\mathbf{f(x)= \operatorname{sen}(2x^3+2x^2)^2}$	$\mathbf{f'(x)=2.\operatorname{sin}(2x^3+2x^2).\cos(2x^3+2x^2)(6x^2+4x)}$
64	$\mathbf{f(x)= \operatorname{sen}(x+1)+5x}$	$f'(x)=\cos(x+1)+5$
65	$\mathbf{f(x)=\sqrt{(\operatorname{sen}(x+1))}}$	$f(x)=\sin(x+1)^{\frac{1}{2}}$ $f'(x)=\frac{1}{2}\sin(x+1)^{-\frac{1}{2}}.\cos(x+1)$ $\mathbf{f'(x)=\frac{\cos(x+1)}{2.\sqrt{\sin(x+1)}}}$
66	$\mathbf{f(x)= \cos(3x+3)}$	$f'(x)=-\sin(3x+3).3$ $\mathbf{f'(x)=-3\sin(3x+3)}$
67	$\mathbf{f(x)= \cos(3x^2+3x)}$	$f'(x)=-\sin(3x^2+3x).(6x+3)$ $\mathbf{f'(x)=-3.\sin(3x^2+3x).(3x+1)}$
68	$\mathbf{f(x)= \frac{1}{\operatorname{sen}(x+1)}}$	$\mathbf{f'(x)=-\frac{\cos(x+1)}{(\operatorname{sen}(x+1))^2}}$
69	$\mathbf{f(x)= \frac{1}{\cos x}+\frac{1}{\operatorname{sen}(x+1)}}$	$\mathbf{f'(x)=\frac{\operatorname{sen} x}{(\cos x)^2}-\frac{\cos(x+1)}{(\operatorname{sen}(x+1))^2}}$
70	$\mathbf{f(x)= \frac{1}{\operatorname{sen} x}-\frac{1}{\cos(x-1)}}$	$f'(x)=\frac{-\text{ÅÇs}\,x}{(\text{se}\mid x)^2}-\frac{\text{se}\mid(x+1)}{(\text{ÅÇs}(x-1))^2}$
71	$\mathbf{f(x)=\sqrt[3]{\cos(3x+3)}}$	$f'(x)=\frac{1}{3\sqrt[3]{(\text{coá}(3x\text{s}3))^2}}.-\operatorname{sen}(3x+3).3$ $\mathbf{f'(x)=-\frac{\operatorname{sen}(3x+3)}{\sqrt[3]{(\cos(3x+3))^2}}}$

72	$f(x) = \frac{1}{\operatorname{sen}(x+1)} + (x^5 - x^3 + 3)^4$	$f'(x) = -\frac{\cos(x+1)}{(\operatorname{sen}(x+1))^2} + 4.(x^5 - x^3 + 3)^3.(5x^4 - 3x^2)$
73	$f(x) = \ln(x-1) + e^{x+1}$	$f'(x) = \frac{1}{x-1} + e^{x+1}$
74	$f(x) = e^{x-3} + \cos(x+1) - x^2$	$f'(x) = e^{x-3} - \sin(x+1) - 2x$
75	$f(x) = \tan(x-5)$	$f'(x) = \sec^2(x-5)$
76	$f(x) = \tan(x^3+3)$	$f'(x) = \sec^2(x^3+3).3x^2$
77	$f(x) = -\tan(-5x^2-7)$	$f'(x) = -\sec^2(-5x^2-7).-10x$ $f'(x) = \sec^2(-5x^2-7).10x$
78	$f(x) = \frac{1}{\tan(x-5)}$	$f'(x) = \frac{-\sec^2(x-5)}{(\tan(x-5))^2}$
79	$f(x) = -\frac{3}{\tan(x+2)}$	$f'(x) = \frac{3.\sec 2(x-5)}{(\tan(x+2))^2}$
80	$f(x) = \sqrt{(\tan(x-5))}$	$f'(x) = \frac{\sec^2(x-5)}{2.\sqrt{\tan(x-5)}}$
81	$f(x) = \operatorname{arcsen}(x^2-3)$	$f'(x) = \frac{2x}{\sqrt{1-(x^2-3)^2}}$
82	$f(x) = 3x + \operatorname{arcsen}(3x^3+3x-7)$	$f'(x) = 3 + \frac{9.x^2+3}{\sqrt{1-(3x^3+3x-7)^2}}$

83	**f(x)=arcsen** $\sqrt{(x^2-3)}$	$f'(x)=\dfrac{\frac{1}{2\sqrt{x^2-3}}.2x}{\sqrt{1-(x^2-3)}}$ $=\dfrac{x}{\sqrt{(-x^2+4).(x^2-3)}}$
84	**f(x)=arcsen** $\left(\frac{x+1}{x-1}\right)$	$f'(x)$ $=\dfrac{1}{\sqrt{1-\left(\frac{x+1}{x-1}\right)^2}}.\dfrac{x-1-(x+1)}{(x-1)^2}$ $f'(x)$ $=\dfrac{1}{\frac{\sqrt{x^2-2x+1-x^2-2x-1}}{(x-1)}}.\dfrac{-2}{(x-1)^2}$ $f'(x)=\dfrac{-2}{2.(x-1).\sqrt{-x}}$ $f'(x)=\dfrac{-1}{(x-1).\sqrt{-x}}$
85	**f(x)=** $\sqrt[3]{\text{sen}(x^2+3)}$	f(x)=$\sqrt[3]{\text{sen}(x^2+3)}$=$(\text{sen}(x^2+3))^{\frac{1}{3}}$ $f'(x)=\dfrac{\cos(x^2+3).2x}{3.\sqrt[3]{(\text{sen}(x^2+3))^2}}$
86	**f(x)=** $\sqrt[3]{\tan e^x}$	$f'(x)=\dfrac{sec^2(e^x).e^x}{3.\sqrt[3]{(\tan(e^x))^2}}$
87	**f(x)=** $x^2.\tan\sqrt{x}$	$f'(x)=2x.\tan\sqrt{x}+x^2.sec^2\sqrt{x}.\frac{1}{2\sqrt{x}}$

88	$\mathbf{f(x)=\frac{1+sen^2x}{x}}$	$f'(x)=\frac{-2.senx.cosx}{x^2}$
89	$\mathbf{f(x)=\ln(sen\,x)}$	$f'(x)=\frac{1}{sen\,x}.\cos x$
90	$\mathbf{f(x)=arctg\,(x^2-3)}$	$f'(x)=\frac{1}{+\quad(x^2-3)^2}.2x$
91	$\mathbf{f(x)=e^{x^2}-3\ \ln(\sin x)}$	$f'(x)=e^{x^2}.2x-3\frac{1}{(\sin x)}.\cos x$
92	$\mathbf{f(x)=e^{x+3}+\ln(x-5)-\cot(x)}$	$f'(x)=e^{x+3}+\frac{1}{x-5}+\operatorname{cosec}^2(x)$
93	$\mathbf{f(x)=arctg(\ln x)}$	$f'(x)=\frac{1}{1+\quad(\ln x))^2}.\frac{1}{x}$
94	$\mathbf{f(x)=\ln(\ln x)}$	$f'(x)=\frac{1}{\ln x}.\frac{1}{x}$
95	$\mathbf{f(x)=\ln(\ln x)+arctg(x^3-1)}$	$f'(x)=\frac{1}{\ln x}.\frac{1}{x}+\frac{1}{1+\quad(x^3-1)^2}.3x^2$
96	$\mathbf{f(x)=\cot(x^3-1)}$	$f'(x)=-3.x^2\ .\ \operatorname{cosec}^2(x^3-1)$
97	$\mathbf{f(x)=\sec x-e^x}$	$f'(x)=secx.tg\ x-e^x$
98	$\mathbf{f(x)=cosec\ x+\frac{x^3}{3}}$	$f'(x)=-cosecx.tg\ x+x^2$
99	$\mathbf{f(x)=\cot(x+1)}$	$f'(x)=-\operatorname{cosec}^2(x+1)$
100	$\mathbf{f(x)=e^{x^2}-\cot(x^3-1)}$	$f'(x)=e^{x^2}.2x+3.x^2\ .\ \operatorname{cosec}^2(x^3-1)$

Si tienes alguna duda no dudes en ponerte en contacto con nosotros.