Calcolare le seguenti derivate di funzioni reali (da considerare definite nel loro *dominio naturale*):

$$D\left(3x^5+2x^3-4x^2+5\right)=15x^4+6x^2-8x$$

$$D\left(2x^6-3x^5+7x^2-16x\right)=12x^5-15x^4+14x-16$$

$$D\left(\frac{\cos x}{x+\text{sen}x}\right)=-\frac{x\text{sen}x+\cos x+1}{(x+\text{sen}x)^2}$$

$$D\left(\frac{\cos x}{x+e^x}\right)=-\frac{(x+e^x)\,\text{sen}x+(e^x+1)\cos x}{(x+e^x)^2}$$

$$D\left(\cos^5 x\right)=-5\cos^4 x\,\text{sen}x$$

$$D\left(\text{sen}(x^2)\right)=2x\cos(x^2)$$

$$D\left(\log(\log x)\right)=\frac{1}{x\log x}$$

$$D\left(\log\left(3x^2+5x-2\right)\right)=\frac{6x+5}{3x^2+5x-2}$$

$$D\left(\log\left(5x^2+4x-7\right)\right)=\frac{10x+4}{5x^2+4x-7}$$

$$D\left(e^{\frac{2x+3}{4x+5}}\right)=-\frac{2e^{\frac{2x+3}{4x+5}}}{(4x+5)^2}$$

$$D\left(5^{\frac{2x+3}{x+3}}\right)=\frac{3\cdot 5^{\frac{2x+3}{x+3}}\log 5}{(x+3)^2}$$

$$D\left(-x^2+2x^2\log x\right)=4x\log x$$

$$D\left((7x^2+x^5)\log(2+e^x)\right)=(14x+5x^4)\log(2+e^x)+(7x^2+x^5)\frac{e^x}{2+e^x}$$

$$D\left(\sqrt{\cos x+2}\right)=\frac{-\text{sen}x}{2\sqrt{\cos x+2}}$$

$$D\left(\frac{1}{x^2+\log 2}\right)=\frac{-2x}{(x^2+\log 2)^2}$$

$$D\left(\frac{2x-3}{x^2+1}\right)=\frac{-2x^2+6x+2}{(x^2+1)^2}$$

$$D\left(\operatorname{arcsen}(\log x)\right)=\frac{1}{x\sqrt{1-\log^2 x}}$$

$$D\left(\log(\operatorname{arctg} x)\right)=\frac{1}{(1+x^2)\operatorname{arctg} x}$$

$$D\left(\log(|\operatorname{arctg} x|)\right)=\frac{1}{(1+x^2)\operatorname{arctg} x}$$

$$D\left(\frac{x\log x}{x-1}\right)=\frac{x-\log x-1}{(x-1)^2}$$

$$D\left(\log\left(\frac{1+x}{1-x}\right)\right)=\frac{2}{1-x^2}$$

$$D\left(\pi^8\right)=0$$

$$D\left((1-e^{2x})\arccos(e^x)\right)=-e^x\sqrt{1-e^{2x}}-2e^{2x}\arccos(e^x)$$

$$D\left(5^{\sqrt{4-x^2}}\right)=\frac{-x}{\sqrt{4-x^2}}5^{\sqrt{4-x^2}}\log 5$$

$$D\left(\log_3\left(1+\operatorname{tg}^2 x\right)\right)=\frac{2\operatorname{tg} x}{\log 3}$$

$$D\left(\log_x 7\right)=-\frac{\log 7}{x\log^2 x}$$

$$D\left(2^{x+1}\log(13x)\right)=2^{x+1}\log 2\log(13x)+\frac{2^{x+1}}{x}$$

$$D\left(\log_4(x+1)\operatorname{arcsen} x\right)=\frac{1}{\log 4}\left(\frac{\operatorname{arcsen} x}{x+1}+\frac{\log(x+1)}{\sqrt{1-x^2}}\right)$$

$$D\left(\frac{\arccos x}{\sqrt{1-x^2}}\right)=-\frac{1}{1-x^2}+\frac{x\arccos x}{(1-x^2)^{3/2}}$$

$$D\left(\operatorname{tg}\left(1-\log_7 x\right)\right)=-\frac{1}{x\log 7\cdot\cos^2(1-\log_7 x)}$$