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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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