ESERCIZI CAP. 4 - PARTE PRIMA

Derivare le seguenti funzioni

$$f(x) = \sqrt[4]{x} - tg\,x$$

$$f(x) = \sqrt{x}\,\cos x + x \log x$$

$$f(x) = (arctg\,x)(\sin x)$$

$$f(x) = \frac{1}{arctg\,x}$$

$$f(x) = \frac{1 - \log x}{\sin x}$$

$$f(x) = \frac{\sqrt{x+1}}{\sqrt[3]{x+2}}$$

$$f(x) = e^{\cos x}$$

$$f(x) = \log \sqrt{3x^2 + \sin x}$$

$$f(x) = \log |arccos\,x|$$

$$f(x) = \sqrt{e^x\,arcsin\sqrt{x}}$$

$$f(x) = \cos(\sin(\cos(\sin x)))$$

$$f(x) = \frac{\log(\log x)}{\log x}$$

$$f(x) = (\sin x)^x$$

$$f(x) = (\log x)^{\sqrt{x}}$$

$$f(x) = \arcsin \sqrt{1-x^2} + x \log(5x)$$

$$f(x) = \frac{(\sin 2x)(\cos 4x)}{\tan 3x}$$

$$f(x) = \left(1 - \cos^3(x^2 + 3x)\right)^{\overline{\pi}}$$

$$f(x) = \sqrt{\frac{1-x}{1+x}}$$

$$f(x) = \left(x - \log \frac{1}{1+x}\right)^{\sqrt{3}}$$

$$f(x) = \frac{1}{x} \, \text{arctg} \, \frac{x^2+2}{x^2-2}$$

$$f(x) = \log_{(e^x+1)}(\cos x + 2)$$

$$f(x) = e^{\sqrt[3]{1+\sin^2 x}}$$

$$f(x) = \left(\text{arctg} \, \frac{x}{x+1}\right)^3$$

$$f(x) = \log \left| \frac{1 - \sqrt{x}}{x+3} \right|$$