

$$\frac{d}{dx}(f(g(x))) = \boxed{}$$

$$\frac{d}{dx}(f(x)g(x)) = \boxed{}$$

$$\frac{d}{dx}(f^{-1}(x)) = \boxed{}$$

$$\frac{d}{dx}\left(\frac{f(x)}{g(x)}\right) = \boxed{}$$

$$\frac{d}{dx}(\cos(x)) = \boxed{}$$

$$\frac{d}{dx}(\sin(x)) = \boxed{}$$

$$\frac{d}{dx}(\tan(x)) = \boxed{}$$

$$\frac{d}{dx}(\tan(x)) = \boxed{}$$

$$\frac{d}{dx}(\ln(x)) = \boxed{}$$

$$\frac{d}{dx}(x^\alpha) = \boxed{}$$

$$\frac{d}{dx}(\arccos(x)) = \boxed{}$$

$$\frac{d}{dx}(\arcsin(x)) = \boxed{}$$

$$\frac{d}{dx}(\arctan(x)) = \boxed{}$$

$$\frac{d}{dx}(e^x) = \boxed{}$$

$$\frac{d}{dx}(\sqrt{x}) = \boxed{}$$

$$\frac{d}{dx}\left(\frac{1}{\sqrt{x}}\right) = \boxed{}$$

$$\frac{d}{dx}\left(\frac{1}{x}\right) = \boxed{}$$

$$\frac{d}{dx}\left(\frac{1}{x^2}\right) = \boxed{}$$

$$\frac{d}{dx}(cst) = \boxed{}$$

$$\frac{d}{dx}(f^n(x)) = \boxed{}$$

$$\frac{d}{dx}(e^{f(x)}) = \boxed{}$$

$$\frac{d}{dx}(\ln(f(x))) = \boxed{}$$

On considère $\alpha \neq -1$.

$$\int^x \cos(t) dt = \boxed{}$$

$$\int^x \sin(t) dt = \boxed{}$$

$$\int^x \tan(t) dt = \boxed{}$$

$$\int^x e^t dt = \boxed{}$$

$$\int^x \ln(t) dt = \boxed{}$$

$$\int^x t^\alpha dt = \boxed{}$$

$$\int^x \frac{dt}{\cos^2(t)} = \boxed{}$$

$$\int^x \tan^2(t) dt = \boxed{}$$

$$\int^x \frac{dt}{t} = \boxed{}$$

$$\int^x \frac{dt}{t^2} = \boxed{}$$

$$\int^x \sqrt{t} dt = \boxed{}$$

$$\int^x \frac{dt}{\sqrt{t}} = \boxed{}$$

$$\int^x f'(t)f^\alpha(t) dt = \boxed{}$$

$$\int^x \frac{f'(t)}{f(t)} dt = \boxed{}$$

$$\int^x f'(t)e^{f(t)} dt = \boxed{}$$

$$\int^x f'(t)f(t) dt = \boxed{}$$

$$\int^x \frac{f'(t)}{\sqrt{f(t)}} dt = \boxed{}$$

$$\int^x f'(t)\sqrt{f(t)} dt = \boxed{}$$

$$\frac{d}{dx}(f(g(x))) = \boxed{g'(x)f'(g(x))}$$

$$\frac{d}{dx}(f(x)g(x)) = \boxed{f'(x)g(x) + f(x)g'(x)}$$

$$\frac{d}{dx}(f^{-1}(x)) = \boxed{\frac{1}{f'(f^{-1}(x))}}$$

$$\frac{d}{dx}\left(\frac{f(x)}{g(x)}\right) = \boxed{\frac{f'(x)g(x) - f(x)g'(x)}{g^2(x)}}$$

$$\frac{d}{dx}(\cos(x)) = \boxed{-\sin(x)}$$

$$\frac{d}{dx}(\sin(x)) = \boxed{\cos(x)}$$

$$\frac{d}{dx}(\tan(x)) = \boxed{1 + \tan^2(x)}$$

$$\frac{d}{dx}(\tan(x)) = \boxed{\frac{1}{\cos^2(x)}}$$

$$\frac{d}{dx}(\ln(x)) = \boxed{\frac{1}{x}}$$

$$\frac{d}{dx}(x^\alpha) = \boxed{\alpha x^{\alpha-1}}$$

$$\frac{d}{dx}(\arccos(x)) = \boxed{-\frac{1}{\sqrt{1-x^2}}}$$

$$\frac{d}{dx}(\arcsin(x)) = \boxed{\frac{1}{\sqrt{1-x^2}}}$$

$$\frac{d}{dx}(\arctan(x)) = \boxed{\frac{1}{1+x^2}}$$

$$\frac{d}{dx}(e^x) = \boxed{e^x}$$

$$\frac{d}{dx}(\sqrt{x}) = \boxed{\frac{1}{2\sqrt{x}}}$$

$$\frac{d}{dx}\left(\frac{1}{\sqrt{x}}\right) = \boxed{-\frac{1}{2x\sqrt{x}}}$$

$$\frac{d}{dx}\left(\frac{1}{x}\right) = \boxed{-\frac{1}{x^2}}$$

$$\frac{d}{dx}\left(\frac{1}{x^2}\right) = \boxed{-\frac{2}{x^3}}$$

$$\frac{d}{dx}(cst) = \boxed{0}$$

$$\frac{d}{dx}(f^n(x)) = \boxed{nf'(x)f^{n-1}(x)}$$

$$\frac{d}{dx}(e^{f(x)}) = \boxed{f'(x)e^{f(x)}}$$

$$\frac{d}{dx}(\ln(f(x))) = \boxed{\frac{f'(x)}{f(x)}}$$

On considère $\alpha \neq -1$.

$$\int^x \cos(t) dt = \boxed{\sin(x)}$$

$$\int^x \sin(t) dt = \boxed{-\cos(x)}$$

$$\int^x \tan(t) dt = \boxed{-\ln|\cos(x)|}$$

$$\int^x e^t dt = \boxed{e^x}$$

$$\int^x \ln(t) dt = \boxed{x \ln(x) - x}$$

$$\int^x t^\alpha dt = \boxed{\frac{1}{\alpha+1}x^{\alpha+1}}$$

$$\int^x \frac{dt}{\cos^2(t)} = \boxed{\tan(x)}$$

$$\int^x \tan^2(t) dt = \boxed{\tan(x) - x}$$

$$\int^x \frac{dt}{t} = \boxed{\ln|x|}$$

$$\int^x \frac{dt}{t^2} = \boxed{-\frac{1}{x}}$$

$$\int^x \sqrt{t} dt = \boxed{\frac{2}{3}x\sqrt{x}}$$

$$\int^x \frac{dt}{\sqrt{t}} = \boxed{2\sqrt{x}}$$

$$\int^x f'(t)f^\alpha(t) dt = \boxed{\frac{1}{\alpha+1}f^{\alpha+1}(x)}$$

$$\int^x \frac{f'(t)}{f(t)} dt = \boxed{\ln|f(x)|}$$

$$\int^x f'(t)e^{f(t)} dt = \boxed{e^{f(x)}}$$

$$\int^x f'(t)f(t) dt = \boxed{\frac{1}{2}f^2(x)}$$

$$\int^x \frac{f'(t)}{\sqrt{f(t)}} dt = \boxed{2\sqrt{f(x)}}$$

$$\int^x f'(t)\sqrt{f(t)} dt = \boxed{\frac{2}{3}f(x)\sqrt{f(x)}}$$