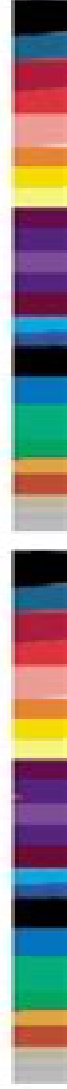


- $\frac{d}{dx}(cf(x)) = c \cdot f'(x)$
- $\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$
- $\frac{d}{dx}(C) = 0$
- $\frac{d}{dx}(x) = 1$
- $\frac{d}{dx}(x^n) = n \cdot x^{n-1}$
- $\frac{d}{dx}(\sin x) = \cos x$
- $\frac{d}{dx}(\cos x) = -\sin x$
- $\frac{d}{dx}(\tan x) = \sec^2 x$
- $\frac{d}{dx}(\csc x) = -\csc x \cot x$
- $\frac{d}{dx}(\sec x) = \sec x \tan x$
- $\frac{d}{dx}(\cot x) = -\csc^2 x$
- $\frac{d}{dx}(e^x) = e^x$
- $\frac{d}{dx}(a^x) = \ln a \cdot a^x$
- $\frac{d}{dx}(\ln x) = \frac{1}{x}$
- $\int c \cdot f(x) dx = c \cdot \int f(x) dx$
- $\int (f(x) \pm g(x)) dx = \int f(x) dx \pm \int g(x) dx$
- $\int 0 dx = C$
- $\int 1 dx = \int dx = x + C$
- $\int x^2 dx = \frac{1}{n+1} x^{n+1} + C \quad (n \neq -1)$
- $\int \cos x dx = \sin x + C$
- $\int \sin x dx = -\cos x + C$
- $\int \sec^2 x dx = \tan x + C$
- $\int \csc x \cot x dx = -\csc x + C$
- $\int \sec x \tan x dx = \sec x + C$
- $\int \csc^2 x dx = -\cot x + C$
- $\int e^x dx = e^x + C$
- $\int a^x dx = \frac{1}{\ln a} \cdot a^x + C$
- $\int \frac{1}{x} dx = \ln|x| + C$

Let u and v be differentiable functions, and let a , c and n be real numbers, $a > 0$, $n \neq 0$.

- $\frac{d}{dx}(cu) = cu'$
- $\frac{d}{dx}(u \pm v) = u' \pm v'$
- $\frac{d}{dx}(u \cdot v) = uv' + u'v$
- $\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{v'v - uv'}{v^2}$
- $\frac{d}{dx}(u(v)) = u'(v)v'$
- $\frac{d}{dx}(c) = 0$
- $\frac{d}{dx}(x) = 1$
- $\frac{d}{dx}(x^n) = nx^{n-1}$
- $\frac{d}{dx}(a^x) = \ln a \cdot a^x$
- $\frac{d}{dx}(\log_b x) = \frac{1}{bx} \cdot \frac{1}{b}$
- $\frac{d}{dx}(\ln x) = \frac{1}{x}$
- $\frac{d}{dx}(\sin x) = \cos x$
- $\frac{d}{dx}(\sec x) = \sec x \tan x$
- $\frac{d}{dx}(\tan x) = \sec^2 x$
- $\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}$
- $\frac{d}{dx}(\sec^{-1} x) = \frac{1}{|x|\sqrt{x^2-1}}$
- $\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$
- $\frac{d}{dx}(\cos x) = -\sin x$
- $\frac{d}{dx}(\csc x) = -\csc x \cot x$
- $\frac{d}{dx}(\cot x) = -\csc^2 x$
- $\frac{d}{dx}(\cos^{-1} x) = -\frac{1}{\sqrt{1-x^2}}$
- $\frac{d}{dx}(\csc^{-1} x) = -\frac{1}{|x|\sqrt{x^2-1}}$
- $\frac{d}{dx}(\cot^{-1} x) = -\frac{1}{1+x^2}$



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