Common Differentiation Rules

1. $\frac{d}{dx}\left(cf(x)\right) = c \cdot f'(x)$
2. $\frac{d}{dx}\left(f(x) \pm g(x)\right) = f'(x) \pm g'(x)$
3. $\frac{d}{dx}\left(C\right) = 0$
4. $\frac{d}{dx}\left(x\right) = 1$
5. $\frac{d}{dx}\left(x^n\right) = n \cdot x^{n-1}$
6. $\frac{d}{dx}\left(\sin x\right) = \cos x$
7. $\frac{d}{dx}\left(\cos x\right) = -\sin x$
8. $\frac{d}{dx}\left(\tan x\right) = \sec^2 x$
9. $\frac{d}{dx}\left(\csc x\right) = -\csc x \cot x$
10. $\frac{d}{dx}\left(\sec x\right) = \sec x \tan x$
11. $\frac{d}{dx}\left(\cot x\right) = -\csc^2 x$
12. $\frac{d}{dx}\left(e^x\right) = e^x$
13. $\frac{d}{dx}\left(a^x\right) = \ln a \cdot a^x$
14. $\frac{d}{dx}\left(\ln x\right) = \frac{1}{x}$

Common Indefinite Integral Rules

1. $\int c \cdot f(x)\,dx = c \cdot \int f(x)\,dx$
2. $\int \left(f(x) \pm g(x)\right)dx = \int f(x)\,dx \pm \int g(x)\,dx$
3. $\int 0\,dx = C$
4. $\int 1\,dx = \int dx = x + C$
5. $\int x^n\,dx = \frac{1}{n+1}x^{n+1} + C \quad (n \neq -1)$
6. $\int \cos x\,dx = \sin x + C$
7. $\int \sin x\,dx = -\cos x + C$
8. $\int \sec^2 x\,dx = \tan x + C$
9. $\int \csc x \cot x\,dx = -\csc x + C$
10. $\int \sec x \tan x\,dx = \sec x + C$
11. $\int \csc^2 x\,dx = -\cot x + C$
12. $\int e^x\,dx = e^x + C$
13. $\int a^x\,dx = \frac{1}{\ln a} \cdot a^x + C$
14. $\int \frac{1}{x}\,dx = \ln|x| + C$

Theorem 2.7.3 Glossary of Derivatives of Elementary Functions 126

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

1. $\frac{d}{dx}\left(cu\right) = cu'$
2. $\frac{d}{dx}\left(u \pm v\right) = u' \pm v'$
3. $\frac{d}{dx}\left(u \cdot v\right) = uv' + u'v$
4. $\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{u'v - uv'}{v^2}$
5. $\frac{d}{dx}\left(u(v)\right) = u'(v)v'$
6. $\frac{d}{dx}\left(c\right) = 0$
7. $\frac{d}{dx}\left(x\right) = 1$
8. $\frac{d}{dx}\left(x^n\right) = nx^{n-1}$
9. $\frac{d}{dx}\left(e^x\right) = e^x$
10. $\frac{d}{dx}\left(a^x\right) = \ln a \cdot a^x$
11. $\frac{d}{dx}\left(\ln x\right) = \frac{1}{x}$
12. $\frac{d}{dx}\left(\log_a x\right) = \frac{1}{\ln a} \cdot \frac{1}{x}$
13. $\frac{d}{dx}\left(\sin x\right) = \cos x$
14. $\frac{d}{dx}\left(\cos x\right) = -\sin x$
15. $\frac{d}{dx}\left(\sec x\right) = \sec x \tan x$
16. $\frac{d}{dx}\left(\csc x\right) = -\csc x \cot x$
17. $\frac{d}{dx}\left(\tan x\right) = \sec^2 x$
18. $\frac{d}{dx}\left(\cot x\right) = -\csc^2 x$
19. $\frac{d}{dx}\left(\sin^{-1} x\right) = \frac{1}{\sqrt{1-x^2}}$
20. $\frac{d}{dx}\left(\cos^{-1} x\right) = -\frac{1}{\sqrt{1-x^2}}$
21. $\frac{d}{dx}\left(\sec^{-1} x\right) = \frac{1}{|x|\sqrt{x^2-1}}$
22. $\frac{d}{dx}\left(\csc^{-1} x\right) = -\frac{1}{|x|\sqrt{x^2-1}}$
23. $\frac{d}{dx}\left(\tan^{-1} x\right) = \frac{1}{1+x^2}$
24. $\frac{d}{dx}\left(\cot^{-1} x\right) = -\frac{1}{1+x^2}$

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