

## Derivative Rules

### Exponential Functions

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

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

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

$$\frac{d}{dx} (a^{g(x)}) = \ln(a) a^{g(x)} g'(x)$$

### Logarithmic Functions

$$\frac{d}{dx} (\ln x) = \frac{1}{x}, x > 0$$

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

$$\frac{d}{dx} (\log_a x) = \frac{1}{x \ln a}, x > 0$$

$$\frac{d}{dx} (\log_a g(x)) = \frac{g'(x)}{g(x) \ln a}$$

### Trigonometric Functions

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

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

$$\frac{d}{dx} (\tan x) = \sec^2 x$$

$$\frac{d}{dx} (\csc x) = -\csc x \cot x$$

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

$$\frac{d}{dx} (\cot x) = -\csc^2 x$$

### Inverse Trigonometric Functions

$$\frac{d}{dx} (\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}, x \neq \pm 1$$

$$\frac{d}{dx} (\cos^{-1} x) = \frac{-1}{\sqrt{1-x^2}}, x \neq \pm 1$$

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

$$\frac{d}{dx} (\cot^{-1} x) = \frac{-1}{1+x^2}$$

$$\frac{d}{dx} (\sec^{-1} x) = \frac{1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

$$\frac{d}{dx} (\csc^{-1} x) = \frac{-1}{x\sqrt{x^2-1}}, x \neq \pm 1, 0$$

### Hyperbolic Functions

$$\frac{d}{dx} (\sinh x) = \cosh x$$

$$\frac{d}{dx} (\cosh x) = \sinh x$$

$$\frac{d}{dx} (\tanh x) = \operatorname{sech}^2 x$$

$$\frac{d}{dx} (\operatorname{csch} x) = -\operatorname{csch} x \operatorname{coth} x$$

$$\frac{d}{dx} (\operatorname{sech} x) = -\operatorname{sech} x \tanh x$$

$$\frac{d}{dx} (\operatorname{coth} x) = -\operatorname{csch} x$$

### Inverse Hyperbolic Functions

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

$$\frac{d}{dx} (\cosh^{-1} x) = \frac{1}{\sqrt{x^2-1}}, x > 1$$

$$\frac{d}{dx} (\tanh^{-1} x) = \frac{1}{1-x^2}, |x| < 1$$

$$\frac{d}{dx} (\operatorname{csch}^{-1} x) = \frac{-1}{|x|\sqrt{1-x^2}}, x \neq 0$$

$$\frac{d}{dx} (\operatorname{sech}^{-1} x) = \frac{-1}{x\sqrt{1-x^2}}, 0 < x < 1$$

$$\frac{d}{dx} (\operatorname{coth}^{-1} x) = \frac{1}{1-x^2}, |x| > 1$$

# Derivatives Principles And Practice Solutions

**Xiaolong Qi**



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