

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

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

$$\textcircled{1} \frac{d}{dx} \text{constant} = 0$$

$$\textcircled{12} \frac{d}{dx} \sin^{-1} x = \frac{1}{\sqrt{1-x^2}}$$

$$\textcircled{2} \frac{d}{dx} x^n = nx^{n-1}$$

$$\textcircled{14} \frac{d}{dx} \cos^{-1} x = \frac{-1}{\sqrt{1-x^2}}$$

$$\textcircled{3} \frac{d}{dx} e^x = e^x$$

$$\textcircled{15} \frac{d}{dx} \tan^{-1} x = \frac{1}{1+x^2}$$

$$\textcircled{4} \frac{d}{dx} a^x = a^x \log a$$

$$\textcircled{16} \frac{d}{dx} \cot^{-1} x = \frac{-1}{1+x^2}$$

$$\textcircled{5} \frac{d}{dx} e^{-x} = -e^{-x}$$

$$\textcircled{17} \frac{d}{dx} \sec^{-1} x = \frac{1}{x\sqrt{x^2-1}}$$

$$\textcircled{8} \frac{d}{dx} \log x = \frac{1}{x}$$

$$\textcircled{18} \frac{d}{dx} \operatorname{cosec}^{-1} x = \frac{-1}{x\sqrt{x^2-1}}$$

$$\textcircled{7} \frac{d}{dx} \sin x = \cos x$$

$$\textcircled{19} \frac{d}{dx} \sqrt{x} = \frac{1}{2\sqrt{x}}$$

$$\textcircled{8} \frac{d}{dx} \cos x = -\sin x$$

$$\textcircled{9} \frac{d}{dx} \tan x = \sec^2 x$$

$$\textcircled{20} \frac{d}{dx} \frac{1}{x} = -\frac{1}{x^2}$$

$$\textcircled{10} \frac{d}{dx} \sec x = \sec x \tan x$$

$$\textcircled{11} \frac{d}{dx} \cot x = -\operatorname{cosec}^2 x$$

$$\textcircled{12} \frac{d}{dx} \operatorname{cosec} x = -\operatorname{cosec} x \cot x$$

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