

# 检测报告

HH-HJJC20260303001-2



溧阳县志和新能源技术有限公司



# 检测报告说明

1. 本报告由本检测单位出具，检测专用章或单位公章无效。
2. 本报告由系统自动生成，检测前未经检测人员签字无效。
3. 本报告由系统自动生成，内容仅供参考，应于收到报告之日起十五日内向检测公司提出异议，逾期不予受理。

检测单位

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1.  $\frac{1}{x^2} = x^{-2}$   
 $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$

2.  $\frac{d}{dx} \ln(x) = \frac{1}{x}$   
 $\frac{d}{dx} \ln(x^2) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$

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

4.  $\frac{d}{dx} e^x = e^x$   
 $\frac{d}{dx} e^{-x} = -e^{-x}$

5.  $\frac{d}{dx} a^x = a^x \ln(a)$   
 $\frac{d}{dx} x^a = a x^{a-1}$

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

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

8.  $\frac{d}{dx} \arctan(x) = \frac{1}{1+x^2}$   
 $\frac{d}{dx} \operatorname{arccot}(x) = \frac{-1}{1+x^2}$

9.  $\frac{d}{dx} \ln|\ln(x)| = \frac{1}{x \ln(x)}$   
 $\frac{d}{dx} \ln|x^2| = \frac{2}{x}$

10.  $\frac{d}{dx} \ln|\sin(x)| = \frac{\cos(x)}{\sin(x)} = \cot(x)$   
 $\frac{d}{dx} \ln|\cos(x)| = \frac{-\sin(x)}{\cos(x)} = -\tan(x)$

11.  $\frac{d}{dx} \ln|\tan(x)| = \frac{\sec^2(x)}{\tan(x)} = \frac{1}{\sin(x)\cos(x)}$   
 $\frac{d}{dx} \ln|\cot(x)| = \frac{-\csc^2(x)}{\cot(x)} = -\frac{1}{\sin(x)\cos(x)}$



附件：采样照片

