

$$f(x) = x^n$$

$$f(x) = \sqrt{x}$$

$$f(x) = \sqrt[n]{x}$$

$$f(x) = \ln x$$

$$f(x) = \log_a x$$

$$f(x) = e^x$$

$$f(x) = a^x$$

$$f(x) = \sin x$$

$$f(x) = \cos x$$

$$f(x) = \tan x$$

$$f(x) = \sec x$$

$$f(x) = \operatorname{cosec} x$$

$$f(x) = \cot ag x$$

$$f(x) = \arcsen x$$

$$f(x) = \arccos x$$

$$f(x) = \arctag x$$

$$f(x) = c$$

$$(f \pm g)'(x) =$$

$$(f \cdot g)'(x) =$$

$$\left(\frac{f}{g}\right)'(x) =$$

$$f'(x) = \frac{\sin x}{\cos^2 x} = \tan x \sec x$$

$$f'(x) = \frac{1}{\cos^2 x} = \sec^2 x$$

$$f'(x) = -\sin x$$

$$f'(x) = \cos x$$

$$f'(x) = a^x \ln a$$

$$f'(x) = e^x$$

$$f'(x) = \frac{-\cos x}{\sin^2 x} = -\cot ag x \operatorname{cosec} x$$

$$f'(x) = \frac{1}{\sqrt{1-x^2}}$$

$$f'(x) = \frac{1}{x \ln a}$$

$$f'(x) = \frac{-1}{\sqrt{1-x^2}}$$

$$f'(x) = 0$$

$$f'(x) = \frac{1}{x}$$

$$f'(x) \pm g'(x)$$

$$f'(x) = \frac{1}{n} \sqrt[n]{x^{1-n}} = \frac{1}{n \sqrt[n]{x^{n-1}}}$$

$$f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$$f'(x) = \frac{1}{2\sqrt{x}}$$

$$\frac{f(x) \cdot g'(x) - f'(x) \cdot g(x)}{(g(x))^2}$$

$$f'(x) = nx^{n-1}$$

$$f'(x) = \frac{-1}{\sin^2 x} = -\operatorname{cosec}^2 x$$

$$f'(x) = \frac{1}{1+x^2}$$