$$\sin x,\ \underbrace{\sin x}_{mathrm},\ \underbrace{\sin x}_{mbox}$$

$$\sin\left(\frac{\theta}{n}\right),\ \underbrace{\tan\left(\frac{\theta}{n}\right)}_{mathrm}$$

$$\sin^2 x + \cos^2 x = 1$$

$$\underbrace{\sin^2 x + \cos^2 x = 1}_{mathrm}$$

$$\sin^2\alpha = \frac{1 - cos(2\alpha)}{2}$$

$$\tan^2\alpha = \frac{1 - cos(2\alpha)}{1 + cos(2\alpha)}$$

$$\int \sec^m(x)\tan^n(x)\,dx, \int \sin^n(x)\,dx$$

$$\frac{1}{n} cos^{n-1}(x)\sin(x) + \frac{n-1}{n}\int \cos^{n-2}(x\,dx$$

$$\int \tan^{-1} dx = x\tan^{-1} x - \frac{1}{2}\ln\left(1 + x^2\right) + c$$

$$\sin(\alpha)\ \sinh(\beta)\ \arcsin(\gamma)\ \mathrm{asin}(\theta)\ \sin(x)\ \sinh(y)\ \arcsin(n)\ \mathrm{asin}(m)$$

$$\cos(\alpha)\ \cosh(\beta)\ \arccos(\gamma)\ \mathrm{acos}(\theta)\ \cos(x)\ \cosh(y)\ \arccos(n)\ \mathrm{acos}(m)$$

$$\tan(\alpha)\ \tanh(\beta)\ \arctan(\gamma)\ \mathrm{atan}(\theta)\ \tan(x)\ \tanh(y)\ \arctan(n)\ \mathrm{atan}(m)$$

$$\csc(\alpha)\ \mathrm{csch}(\beta)\ \mathrm{arccsc}(\gamma)\ \mathrm{acsc}(\theta)\ \csc(x)\ \mathrm{csch}(y)\ \mathrm{arccsc}(n)\ \mathrm{acsc}(m)$$

$$\sec(\alpha)\ \mathrm{sech}(\beta)\ \mathrm{arcsec}(\gamma)\ \mathrm{asec}(\theta)\ \sec(x)\ \mathrm{sech}(y)\ \mathrm{arcsec}(n)\ \mathrm{asec}(m)$$

$$\cot(\alpha)\ \coth(\beta)\ \mathrm{arccot}(\gamma)\ \mathrm{acot}(\theta)\ \cot(x)\ \coth(y)\ \mathrm{arccot}(n)\ \mathrm{acot}(m)$$

$$\sin\left(\frac{x}{a}\right)\ \tan\left(\frac{n|\theta|}{k}\right)$$

$$\frac{1}{a}\arctan\left(\frac{u}{a}\right)$$

$$\lim_{\theta\to 0}\frac{\sin\left(\dfrac{n\theta}{2}\right)}{\theta}\ \lim_{\theta\to 0}\frac{\tan\left(\dfrac{n|\theta|}{m}\right)}{n\theta}$$

$$f : y = \sqrt[4]{\left(\frac{\sqrt{x^3}}{\sqrt[6]{x}}\right)^3}, x \neq 0, x \in (0; \infty)$$

$$y = \sqrt[4]{\left(\frac{\sqrt{1^3}}{\sqrt[6]{1}}\right)^3} = \sqrt[4]{\left(\frac{1}{1}\right)^3} = \sqrt[4]{1^3} = \sqrt[4]{1} = 1$$

$$y = \sqrt[4]{\left(\frac{\sqrt{x^3}}{\sqrt[6]{x}}\right)^3} = \sqrt[4]{\left(\frac{x^{\frac{3}{2}}}{x^{\frac{1}{6}}}\right)^3} = \sqrt[4]{\left(x^{\frac{9-1}{6}}\right)^3} = \sqrt[4]{\left(x^{\frac{4}{3}}\right)^3} = \sqrt[4]{x^4} = x$$