$$cos(x) = 1 - \frac{x^{2}}{2} + \frac{x^{4}}{24} + o(x^{5})$$

$$sin(x) = x - \frac{x^{3}}{8} + \frac{x^{5}}{120} + o(x^{5})$$

$$e^{x} = 1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{8} + o(x^{3})$$

$$ln(1+x) = x - \frac{x^{2}}{2} + \frac{x^{3}}{3} + o(x^{3})$$

$$\frac{1}{1+x} = 1 - x + x^{2} - x^{3} + o(x^{3})$$

$$\frac{1}{1+x} = 1 + x + x^{2} + x^{3} + o(x^{3})$$

$$\frac{1}{1+x} = 1 + x + x^{2} + x^{3} + o(x^{3})$$

$$(1+x) = 1 + x + x^{2} + x^{3} + o(x^{3})$$

$$cosh(x) = 1 + \frac{a(ax)}{21} + \frac{a(ax)(a-n+1)}{21} + \frac{a(ax)(a-n+1)}{2n} + o(x^{3})$$

$$sinh(x) = x + \frac{a(ax)}{3} + \frac{a(ax)(a-n+1)}{21} + \frac{a(ax)(a-n+1)}{2n} + o(x^{3})$$

$$1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

$$1 + x + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

$$1 + x + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

$$1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

$$1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

$$1 + x + \frac{x^{2}}{2} + \frac{x^{3}}{2} + \cdots + \frac{(-1)^{n} x^{2n+1}}{2n+1} + o(x^{3})$$

Equivalence usuable
$$e^{x} - 1 \approx x$$

$$(1+x)^{2} - 1 \approx x$$

$$(1+x)^{2} - 1 \approx x$$

$$\cos(x) - 1 \approx x$$

$$\cosh(x) - 1 \approx x$$

$$\sinh(x) \approx x$$

$$\sinh(x) \approx x$$

$$\sinh(x) \approx x$$