

$x \rightarrow 0$
$\operatorname{sen} x \cong x$
$\tan x \cong x$
$\operatorname{arcsen} x \cong x$
$\operatorname{arctan} x \cong x$
$1 - \cos x \cong \frac{x^2}{2}$
$e^x - 1 \cong x$
$a^x - 1 \cong x \ln a$
$\ln(1+x) \cong x$
$(1+ax)^{1/x} \cong e^a$
$(1+x)^k - 1 \cong kx$

$x \rightarrow \infty$
$\operatorname{sen} \frac{1}{x} \cong \frac{1}{x}$
$\tan \frac{1}{x} \cong \frac{1}{x}$
$\operatorname{arcsen} \frac{1}{x} \cong \frac{1}{x}$
$\operatorname{arctan} \frac{1}{x} \cong \frac{1}{x}$
$1 - \cos \frac{1}{x} \cong \frac{1}{2x^2}$
$e^{1/x} - 1 \cong \frac{1}{x}$
$a^{1/x} - 1 \cong \frac{\ln a}{x}$
$\ln\left(1 + \frac{1}{x}\right) \cong \frac{1}{x}$
$\left(1 + \frac{a}{x}\right)^x \cong e^a$
$\left(1 + \frac{1}{x}\right)^k - 1 \cong \frac{k}{x}$