

Limiti Notevoli

$$\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$$

$$\lim_{x \rightarrow 0} \frac{\tan(x)}{x} = 1$$

$$\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x^2} = \frac{1}{2}$$

$$\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x} = 0$$

$$\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$$

$$\lim_{x \rightarrow 0} \frac{a^x - 1}{x} = \ln(a)$$

$$\lim_{x \rightarrow 0} \frac{\ln(1+x)}{x} = 1$$

$$\lim_{x \rightarrow 0} \frac{\log_a(1+x)}{x} = \frac{1}{\ln(a)}$$

$$\lim_{x \rightarrow 0} \frac{(1+x)^a - 1}{x} = a$$

$$\lim_{x \rightarrow +\infty} \left(1 + \frac{1}{x}\right)^x = e$$

$$\lim_{x \rightarrow +\infty} \left(1 + \frac{1}{x}\right)^{\alpha x} = e^\alpha$$

$$\lim_{x \rightarrow +\infty} \left(1 + \frac{\beta}{x}\right)^{\alpha x} = e^{\alpha \beta}$$