12 - LIMITI NOTEVOLI

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

- $\lim_{x \to a} \frac{1 - \cos(x)}{x^2} = \frac{1}{2}$

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

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

- $\lim_{x \to 0} \frac{\arcsin(x)}{x} = 1$

- $\lim_{x \to 0} \frac{\arctan(x)}{x} = 1$

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

- $\lim_{x \to 0} (1+x)^{\frac{1}{x}} = e$

- $\lim_{x \to \pm\infty} \left(1 + \frac{a}{x}\right)^x = e^a$

- $\lim_{x \to 0} \frac{\log(1+x)}{x} = 1$

- $\lim_{x \to 0} \frac{\log_a(1+x)}{x} = \log_a(e)$

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

- $\lim_{x \to 0} \frac{a^x - 1}{x} = \log(a)$, com $a > 0$, $a \neq 1$

- $\lim_{x \to 0} \frac{(1+x)^a - 1}{x} = a$, $a \in \mathbb{R}$

- $\lim_{x \to +\infty} \frac{b^x}{x^a} = +\infty$ com $b > 1$, $a \in \mathbb{R}$

- $\lim_{x \to +\infty} \frac{x^b}{\log_a(x)} = +\infty$ com $b > 0$, $a > 1$

- $\lim_{x \to 0} x^b \log_a(x) = 0$ com $b > 0$, $a > 0$ e $a \neq 1$