

LIMITI: LIMITI NOTEVOLI

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1.	$\lim_{x \rightarrow \pm \infty} \frac{a_0 x^i + a_1 x^{i-1} + \dots + a_i}{b_0 x^k + b_1 x^{k-1} + \dots + b_k} = \begin{cases} \operatorname{sgn} \left[\frac{a_0}{b_0} \right] \cdot (\pm 1)^{(i-k)} \cdot \infty, & \text{se } i > k \\ \frac{a_0}{b_0}, & \text{se } i = k \\ 0, & \text{se } i < k \end{cases}$
2.	$\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$
3.	$\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x} = 0$
4.	$\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x^2} = \frac{1}{2}$
5.	$\lim_{x \rightarrow 0} \frac{\tan(x)}{x} = 1$
6.	$\lim_{x \rightarrow \pm \infty} \left(1 + \frac{1}{x} \right)^x = e$
7.	$\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$
8.	$\lim_{x \rightarrow 0} \frac{a^x - 1}{x} = \ln(a), a > 0$
9.	$\lim_{x \rightarrow 0} \frac{\ln(1+x)}{x} = 1$
10.	$\lim_{x \rightarrow 0} \frac{\log_a(1+x)}{x} = \log_a e \quad a > 0, a \neq 1$