

$$f(x) \sim g(x) \quad \text{per } x \rightarrow x_0$$

$$\text{se } \lim_{x \rightarrow x_0} \frac{f(x)}{g(x)} = 1$$

ESEMPIO:

$$3x^2 + 2x \sim 3x^2 \quad \text{per } x \rightarrow \infty$$

$$e^x + 1 \sim e^x \quad \text{per } x \rightarrow \infty$$

$$1 + x \sim 1 \quad \text{per } x \rightarrow 0$$

$$\ln(1+x) \sim x \quad \text{per } x \rightarrow 0$$

$$e^x - 1 \sim x \quad \text{per } x \rightarrow 0$$

$$\sin(x) \sim x \quad \text{per } x \rightarrow 0$$

$$1 - \cos(x) \sim \frac{x^2}{2} \quad \text{per } x \rightarrow 0$$