$$\lim_{u \to 0} \frac{\operatorname{sen}(u)}{u} = 1 \tag{1}$$

$$\lim_{u \to 0} \frac{1 - \cos(u)}{u} = 0 \tag{2}$$

$$\lim_{u \to \pm\infty} \frac{\operatorname{sen}(u)}{u} = 1 \tag{3}$$

$$\lim_{u \to 0} \frac{a^u - 1}{u} = \ln(a) \tag{4}$$