a) h) 
$$0 = \frac{e^{x}}{e^{x}}$$

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

iii) E = 10-3 = 0,001 Determinar N(E) 1an-L/5E, 7 m >, N(E) Du rego-1m -0/50,001 1 = 1 4 0/001 m = 0,001.  $\frac{\int_{m(e^{n})} = \int_{m(0,001)}$ 1 = In(0,001) m  $l_m(m)$ -m 50 m 7,0

O volor minimo pora N(E) à O.