

$$= e(1-e^0) + e^{20}(1-e^0)$$

$$= \frac{e^0}{1-e^0} + \frac{e^{20}}{(1-e^0)^2}$$

evidência

$$\frac{e^0}{1-e^0} \left[1 + \frac{e^0}{1-e^0} \right] = \left[\frac{1}{1-e^0} \right] \frac{e^0}{1-e^0} = \boxed{\frac{e^0}{(1-e^0)^2}}$$

Pesos:

$$\omega = \frac{\left(\frac{\partial u_i}{\partial n} \right)^2}{V(n)}$$

→ a matriz de pesos (matriz diagonal com elementos)

$$\frac{\partial n}{\partial u} = \left[\ln\left(\frac{u}{u+1}\right) \right]' = \frac{1}{u(u+1)} \cdot u'(u) =$$

$$\frac{u+1}{u} \cdot \left[\frac{\partial}{\partial u} \ln\left(\frac{u}{u+1}\right) \right] = \left[\ln(u) - \ln(u+1) \right]' = \frac{1}{u} - \frac{1}{u+1}$$