Sea  $\sigma(x) = 1 / 1 + \exp(-x)$  Comprobar que d/dx  $\sigma(x) = \sigma(x) * (1 - \sigma(x))$ .

$$d/dx \ \sigma(x) = d/dx \ 1 / 1 + exp(-x) = d/dx \ (1 + exp(-x))^{-1} = -[1 + exp(-x)]^{-1} = -[1 + exp(-x)]^{-1}$$

## Reescribiendo

$$= \sigma(x) * (1 - \sigma(x))$$