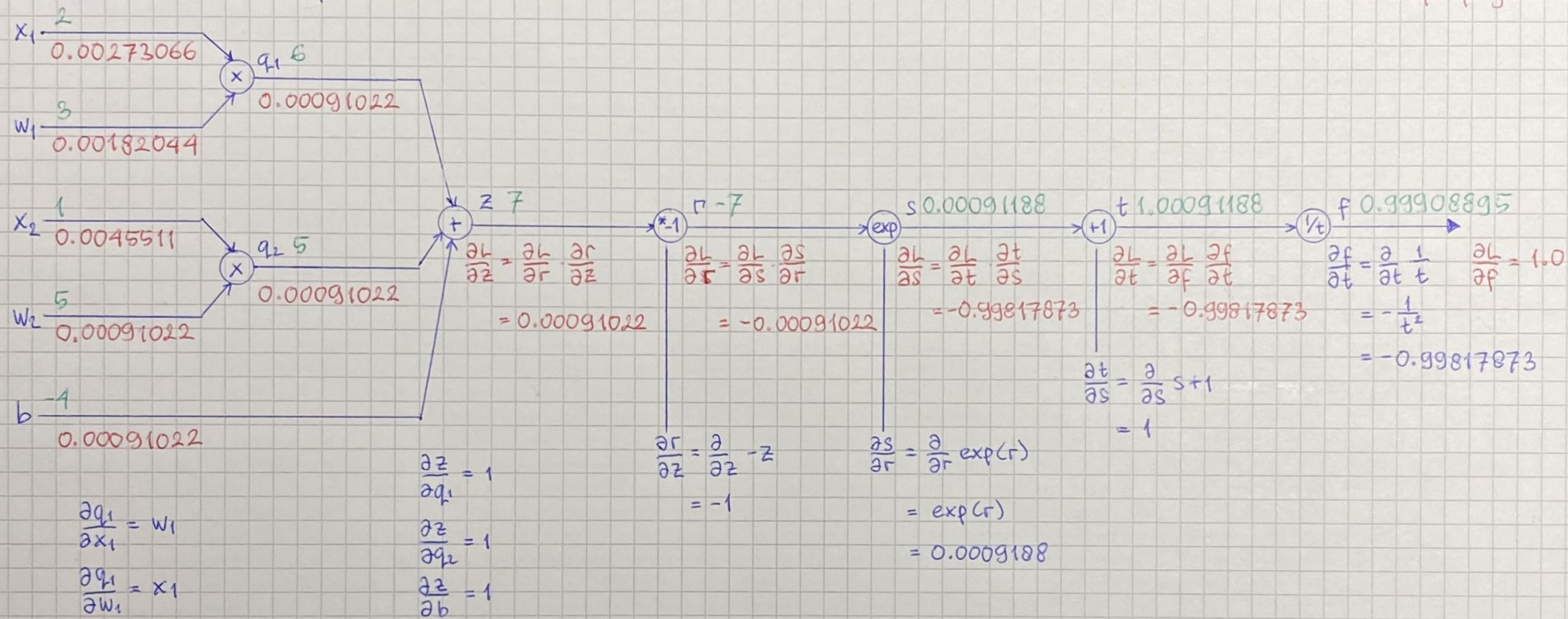


$$h_\theta(x_1, x_2) = \frac{1}{1 + \exp(-(w_1 x_1 + w_2 x_2 + b))}$$



Check using :

$$\sigma(z) = \frac{1}{1 + e^{-z}}$$

$$\sigma(7) = 0.99908895$$

$$\sigma'(z) = (1 - \sigma(z)) \cdot \sigma(z)$$

$$\sigma'(7) = (1 - 0.99908895) \cdot (0.99908895) = 0.00091022$$