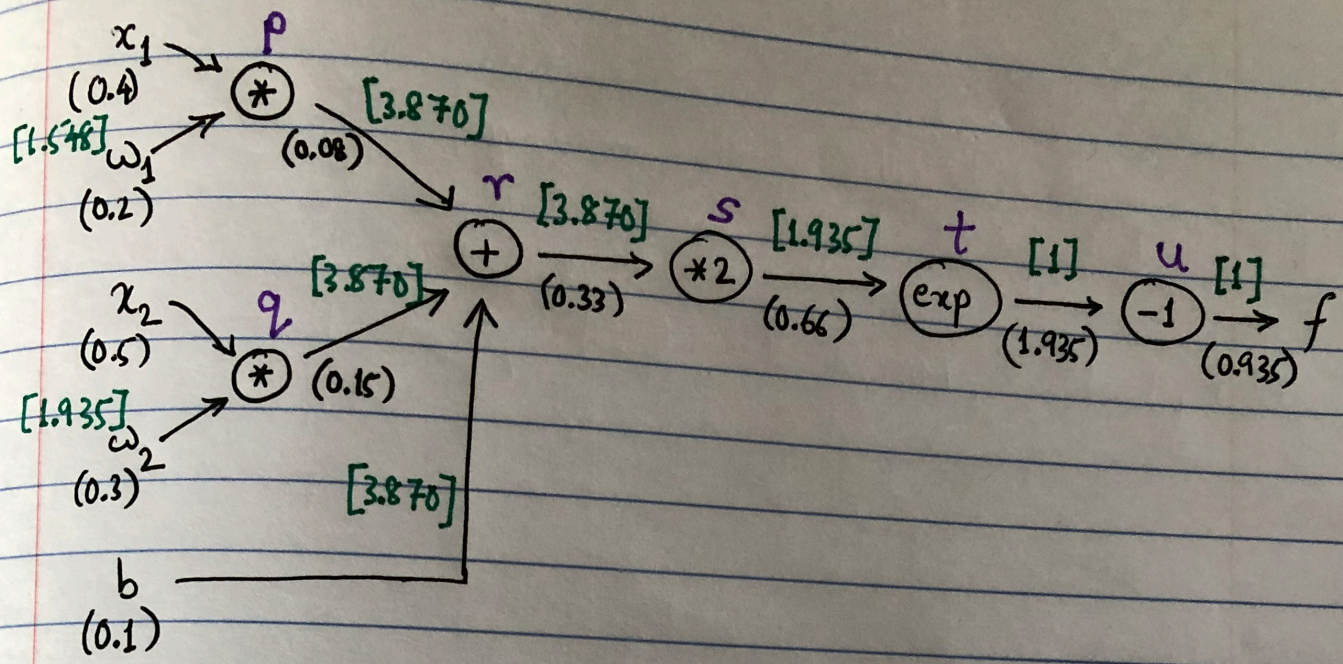

Forward:

$p = \omega_1 * x_1 = 0.2 * 0.4 = 0.08$

$q = \omega_2 * x_2 = 0.3 * 0.5 = 0.15$

$r = p + q + b = 0.08 + 0.15 + 0.1 = 0.33$

$s = r * 2 = 0.33 * 2 = 0.66$

$t = \exp(s) = e^{0.66} = 1.935$

$u = t - 1 = 1.935 - 1 = 0.935 = f$

Backward:

$\frac{\partial f}{\partial u} = \frac{\partial f}{\partial f} = 1$

$\frac{\partial u}{\partial t} = \frac{\partial}{\partial t}(t-1) = 1 \longrightarrow \frac{\partial f}{\partial t} = 1$

$\frac{\partial t}{\partial s} = \frac{\partial}{\partial s}(e^s) = e^s \longrightarrow \frac{\partial f}{\partial s} = 1 * e^s = 1.935$

$\frac{\partial s}{\partial r} = \frac{\partial}{\partial r}(2r) = 2 \longrightarrow \frac{\partial f}{\partial r} = 2 * \frac{\partial f}{\partial s} = 3.870$

$\frac{\partial r}{\partial p} = \frac{\partial r}{\partial q} = \frac{\partial r}{\partial b} = 1 \longrightarrow \frac{\partial f}{\partial p} = \frac{\partial f}{\partial q} = \frac{\partial f}{\partial b} = 1 * \frac{\partial f}{\partial r} = 3.870$

$\frac{\partial p}{\partial \omega_1} = x_1 \longrightarrow \frac{\partial f}{\partial \omega_1} = x_1 * \frac{\partial f}{\partial p} = 1.548$

$\frac{\partial q}{\partial \omega_2} = x_2 \longrightarrow \frac{\partial f}{\partial \omega_2} = x_2 * \frac{\partial f}{\partial q} = 1.935$