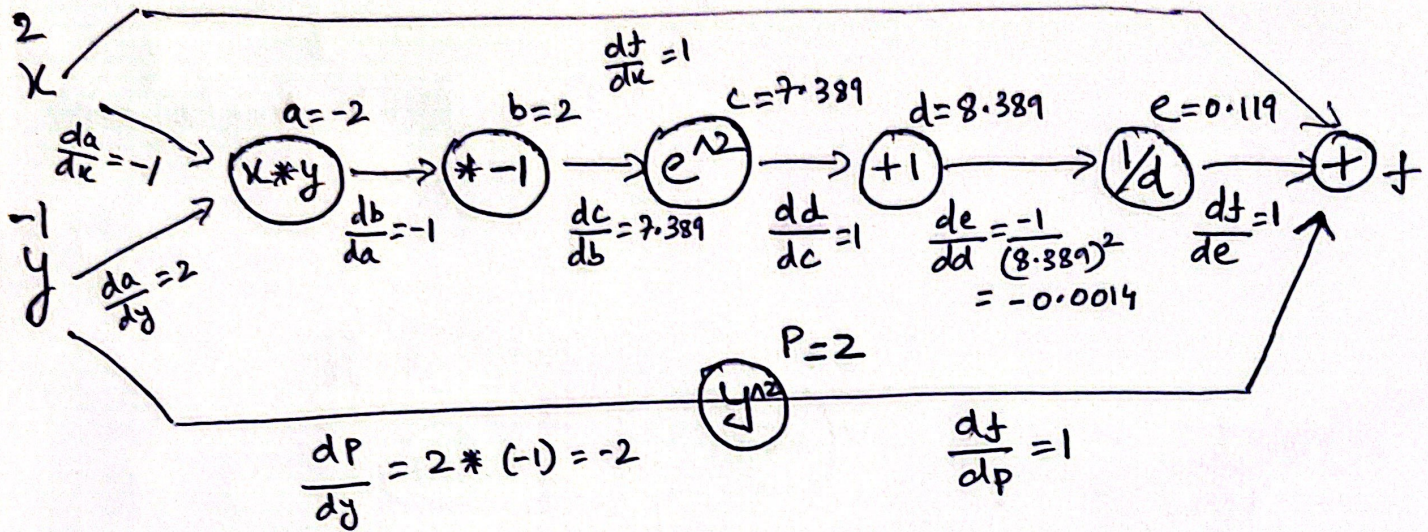


Equation = $f = k + \sigma(ky) + y^2$ and $\sigma(q) = \frac{1}{1+e^{-q}}$



$$\frac{dt}{dx} = 1$$

$$\frac{dt}{dy} = \frac{dt}{dp} * \frac{dp}{dy} = 1 * -2 = \boxed{-2}$$