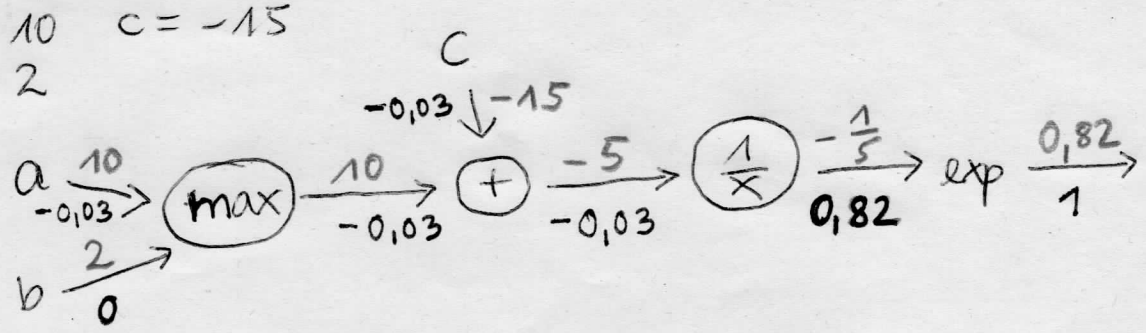
$a = 10 \quad c = -15$
$b = 2$



Backpropagation gesucht:

$$\frac{d\,out}{d\,a}, \frac{d\,out}{d\,b}, \frac{d\,out}{d\,c}$$

$$\frac{d\,out}{d\,exp} = \frac{d\,out}{d\,out} \cdot \frac{d\,out}{d\,exp} = 1 \cdot e^x = 0{,}82$$

$$\frac{d\,out}{d\,\frac{1}{x}} = \frac{d\,out}{d\,exp} \cdot \frac{d\,exp}{d\,\frac{1}{x}} = 0{,}82 \cdot -\frac{1}{x^2} = 0{,}82 \cdot -\frac{1}{25} = -0{,}0328$$

$$\frac{d\,out}{d\,c} = \frac{d\,out}{d\,+} \cdot \frac{d\,+}{d\,c} = -0{,}03 \cdot 1 = -0{,}03$$ → gilt für beide Summanden

(⊛ Wie würde man eine solche Zeile für die max-Funktion aufschreiben?)

$$\frac{d\,out}{d\,c} = -0{,}03 \qquad \frac{d\,out}{d\,a} = -0{,}03 \qquad \frac{d\,out}{d\,b} = 0$$