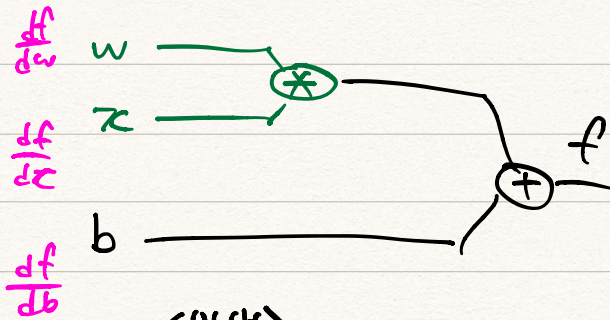


⊗ Back propagation (chain rule)

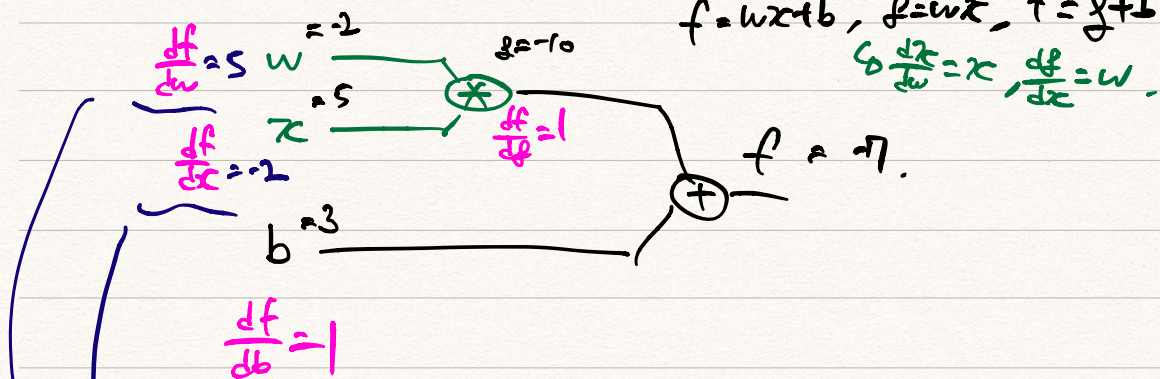
ex) $f = wx + b$ 라 할 때,
 =용 라 하면 $f = g + b$.



<방법>

① forward ($w=2, x=5, b=3$)

② backward

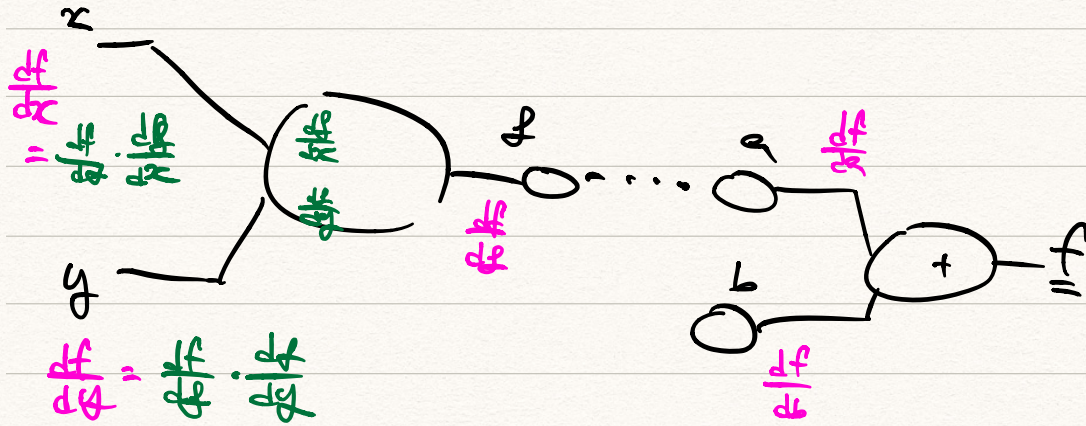


$$\Delta \frac{df}{dw} = \frac{df}{dg} \cdot \frac{dg}{dw} = 1 \times 5 = 5.$$

$$\Delta \frac{df}{dx} = \frac{df}{dg} \cdot \frac{dg}{dx} = 1 \times 2 = 2.$$

위의 분홍색 라벨 값들이 f에 미칠 수 있는 영향력.

⊗ Back propagation (chain rule)



⊗ Sigmoid

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

이런에도 두번더 BP준해줄가능!

Tensor Board가 짱짱맨?