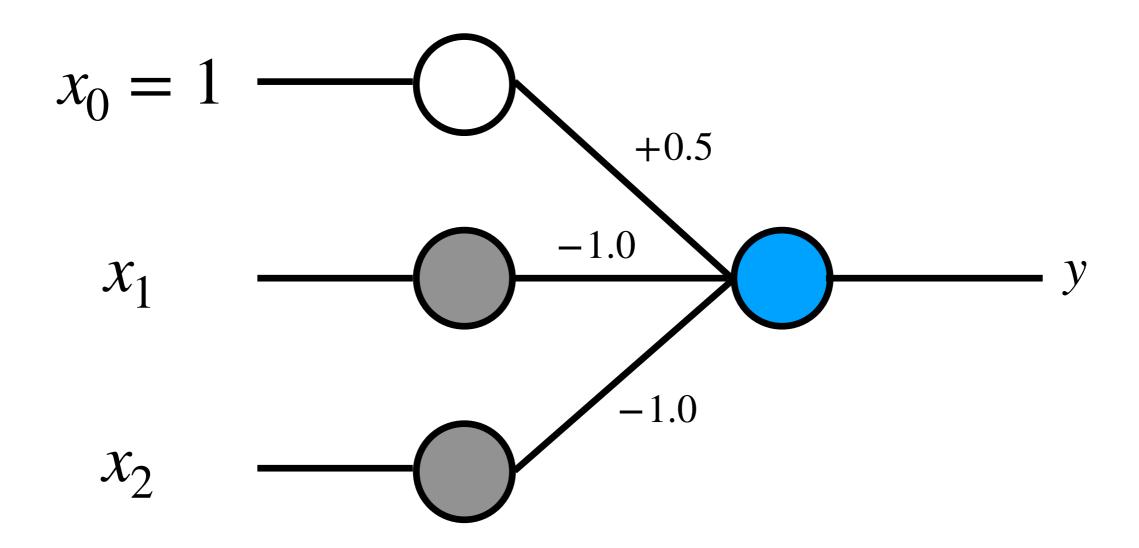
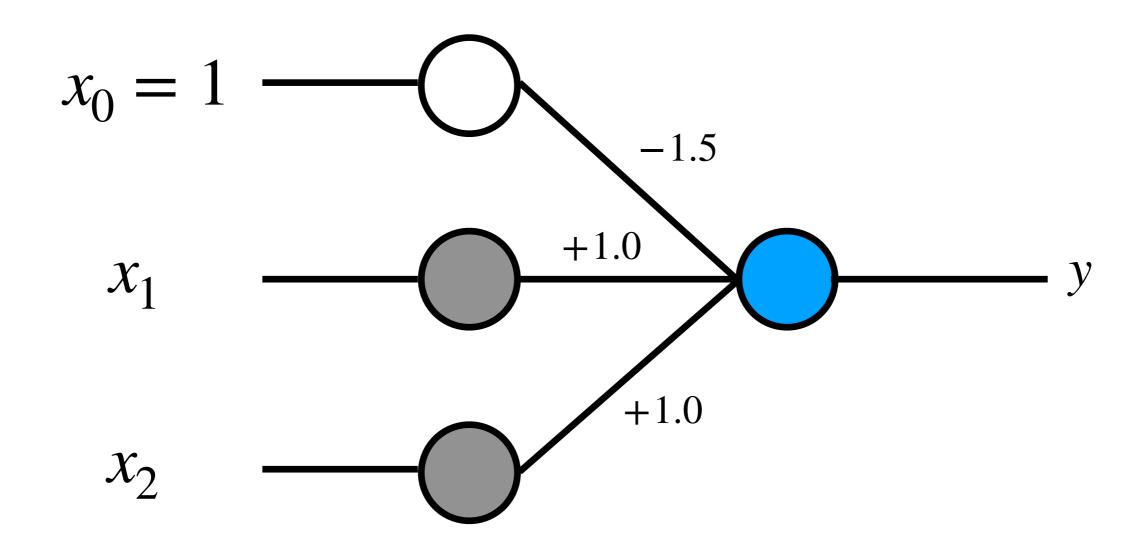
NOR 분류



AND 분류

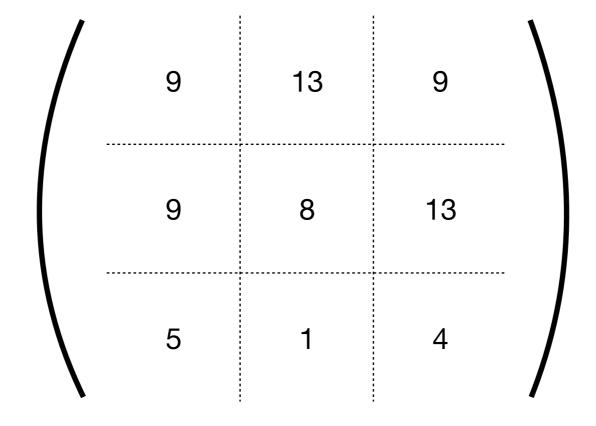


매트릭스

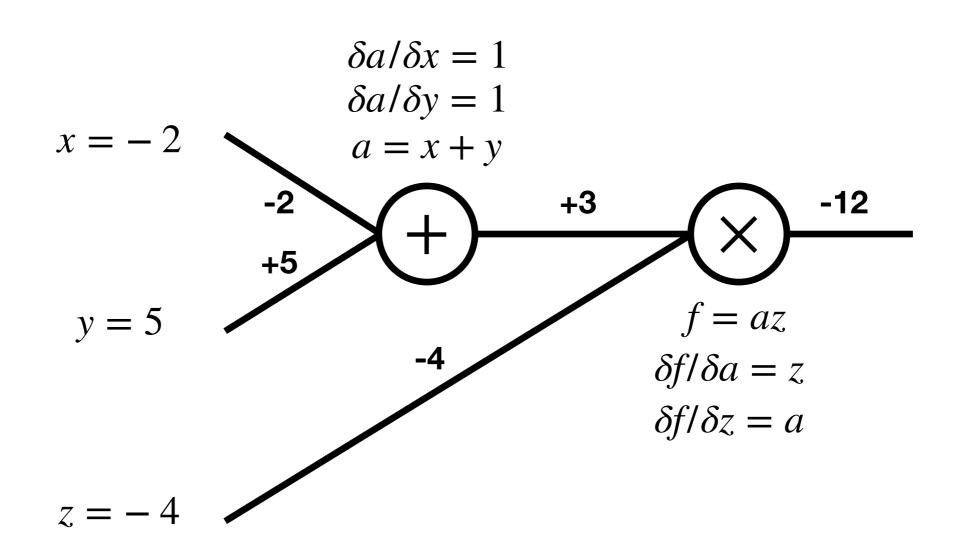
$$U^{1} = \begin{pmatrix} -0.3 & 1.0 & 1.2 \\ 1.6 & -1.0 & -1.1 \end{pmatrix} \qquad U^{3} = \begin{pmatrix} 0.5 & -0.8 & 1.0 \\ -0.1 & 0.3 & 0.4 \end{pmatrix}$$

$$U^{2} = \begin{pmatrix} 1.0 & 1.0 & -1.0 \\ 0.7 & 0.5 & 1.0 \end{pmatrix} \qquad U^{4} = \begin{pmatrix} 1.0 & 0.1 & -0.2 \\ -0.2 & 1.3 & -0.4 \end{pmatrix}$$

특징맵



Forward Pass



Back Propagation

$$\delta f/\delta x = z$$

$$x = -2$$

$$y = 5$$

$$\delta f/\delta y = z$$

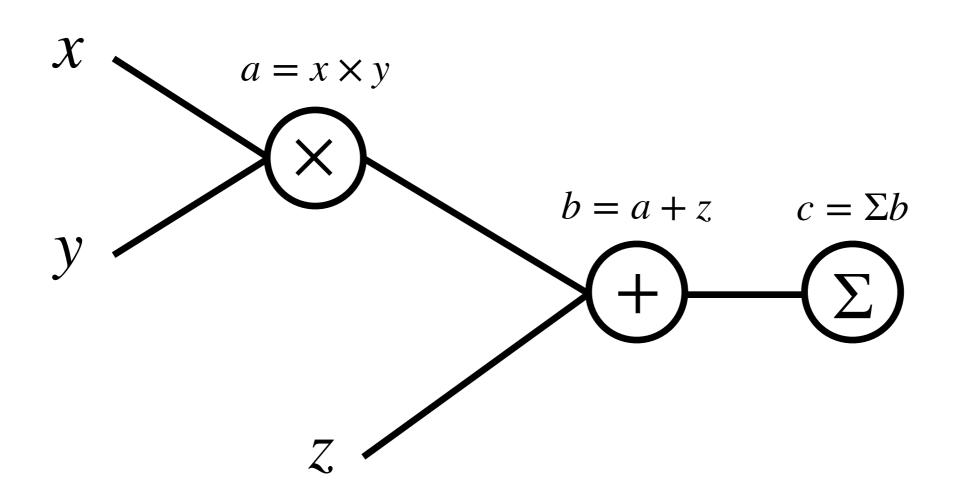
$$\delta f/\delta z = a = x + y$$

$$f = az$$

$$\delta f/\delta z = a = x + y$$

$$z = -4$$

2_2 Error Backprop



2_3 Error Backprop

