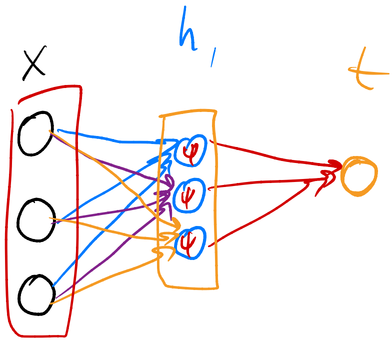
$h_1 = \psi_1(\theta_1^T x)$

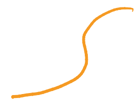
$h_2 = \psi_2(\theta_2^T h_1)$

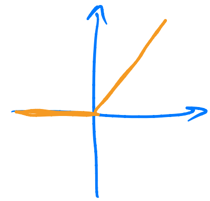
$\vdots$

$h_n = \psi(\theta_n^T h_{n-1})$

$t = \psi(\theta_{k+1}^T h_k)$







$h_1 = \psi_1(\theta_1^T x)$

$t = \psi_2(\theta_2^T h_1)$

$\bar{x} = \max(0, x)$

1) Не выпукла.
 - локальные минимумы
 - седловые точки.

2) Вычислительные сложность.

Выч. граф.

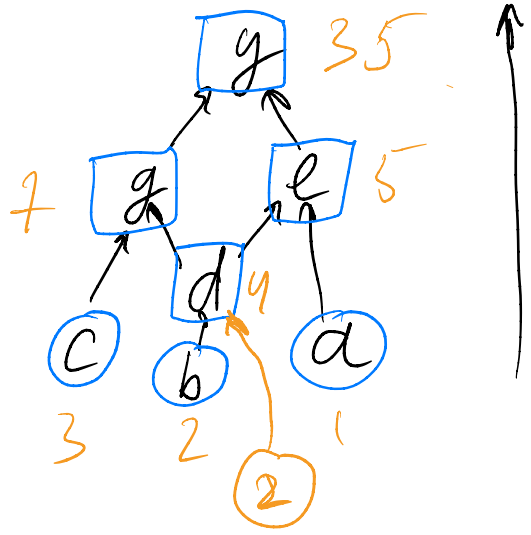
$f(a,b,c) = (a+2b)(2b+c).$

$d = 2 \cdot b$

$e = a + d$

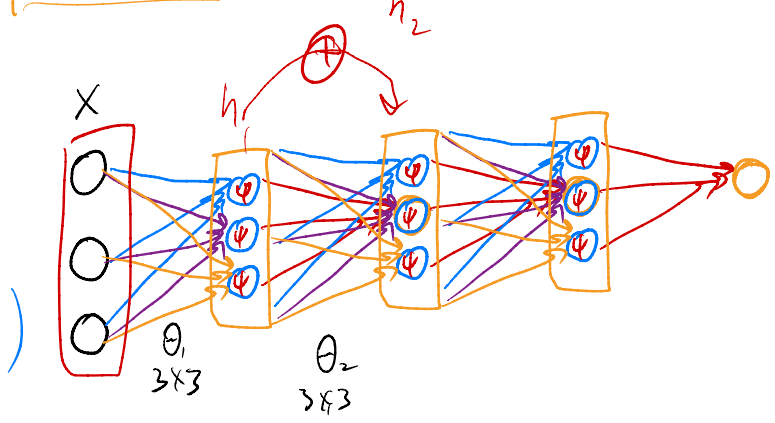
$g = d + c$

$y = e \cdot g$



$$\frac{\partial f_n}{\partial x} = \frac{\partial f_n}{\partial f_{n-1}} \cdot \frac{\partial f_{n-1}}{\partial f_{n-2}} \cdot \frac{\partial f_{n-2}}{\partial f_{n-3}} \cdots \frac{\partial f_1}{\partial x}$$

$$\frac{\partial f_n}{\partial \bullet}$$



$\nabla_\theta L(\ldots)$