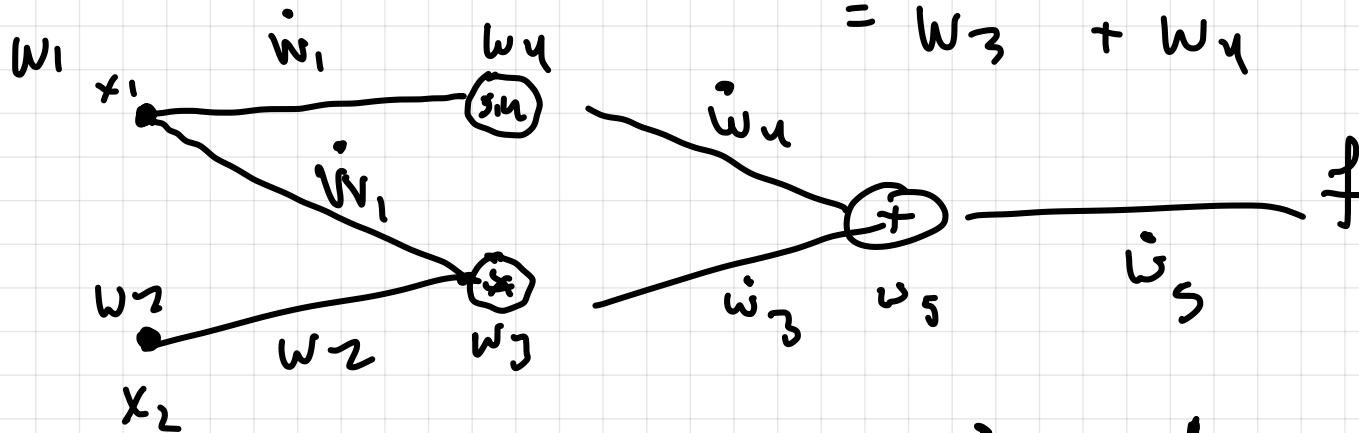


$$\begin{aligned}
 y = f(x_1, x_2) &= x_1 \cdot x_2 + \sin x_1 \\
 &= w_1 w_2 + \sin w_1 \\
 &= w_3 + w_4
 \end{aligned}$$



2.3

$$\begin{aligned}
 w_1 &= x_1 \\
 w_2 &= x_2 \\
 w_3 &= w_1 * w_2 \\
 w_4 &= \sin w_1 \\
 w_5 &= w_3 + w_4
 \end{aligned}$$

$$\begin{aligned}
 \dot{w}_1 &= 1 \\
 \dot{w}_2 &= 0 \\
 \dot{w}_3 &= w_1 \cdot \dot{w}_2 + \dot{w}_1 * w_2 \\
 \dot{w}_4 &= \cos w_1 \cdot \dot{w}_1 \\
 \dot{w}_5 &= 1 \cdot \dot{w}_3 + 1 \cdot \dot{w}_4
 \end{aligned}$$

$$\left. \begin{aligned}
 &2.0 \\
 &+ 1.5 \\
 &= 3 \\
 &(\cos 2)
 \end{aligned} \right\}$$

$$(\cos 2 + 3)$$

$$y = f(g(h(x)))$$

$$\frac{\partial y}{\partial x} = \frac{\partial f}{\partial g} \cdot \frac{\partial g}{\partial x}$$

$$= \frac{\partial f}{\partial g} \cdot \left(\frac{\partial f}{\partial h} \cdot \frac{\partial h}{\partial x} \right)$$

