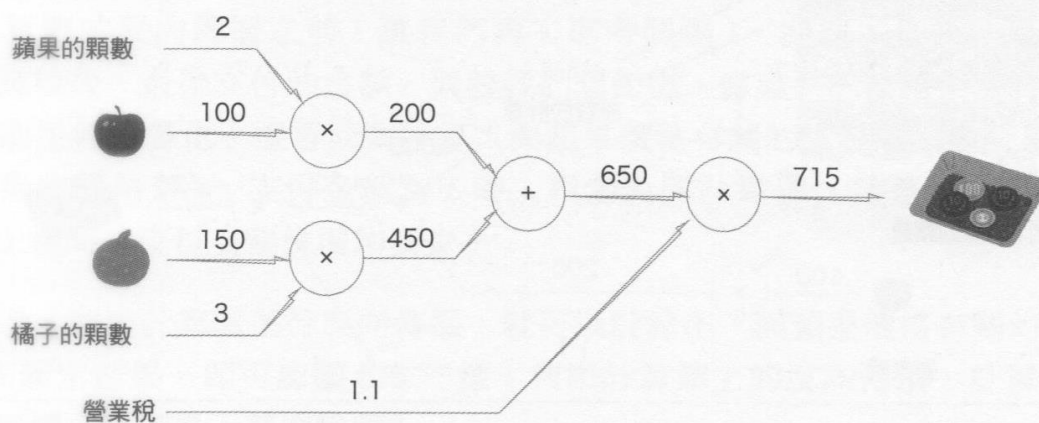
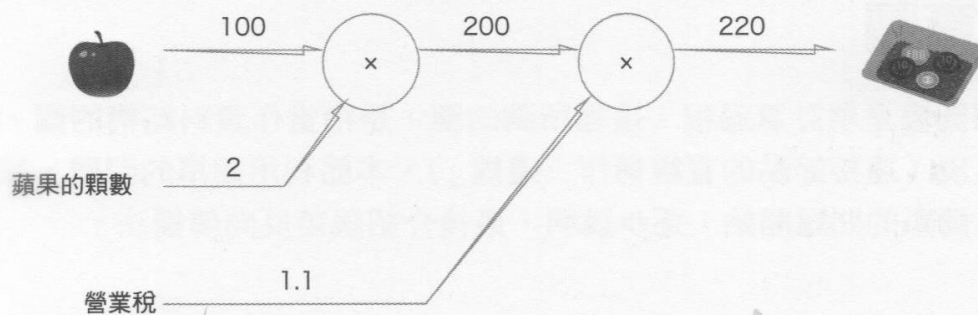
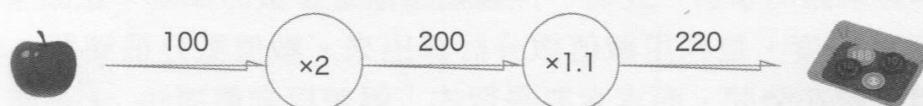
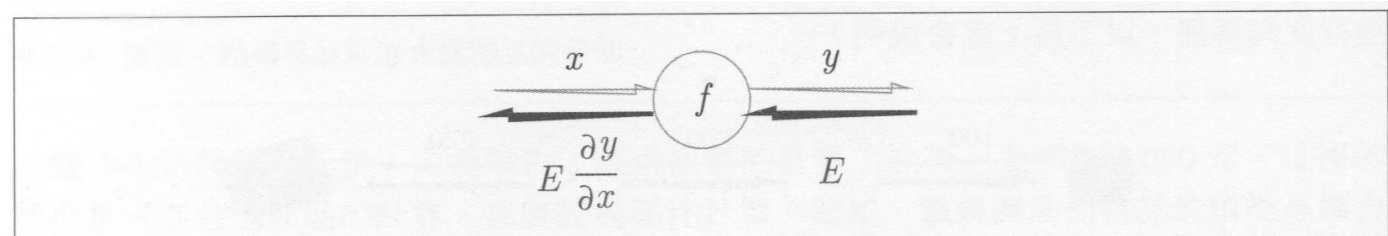
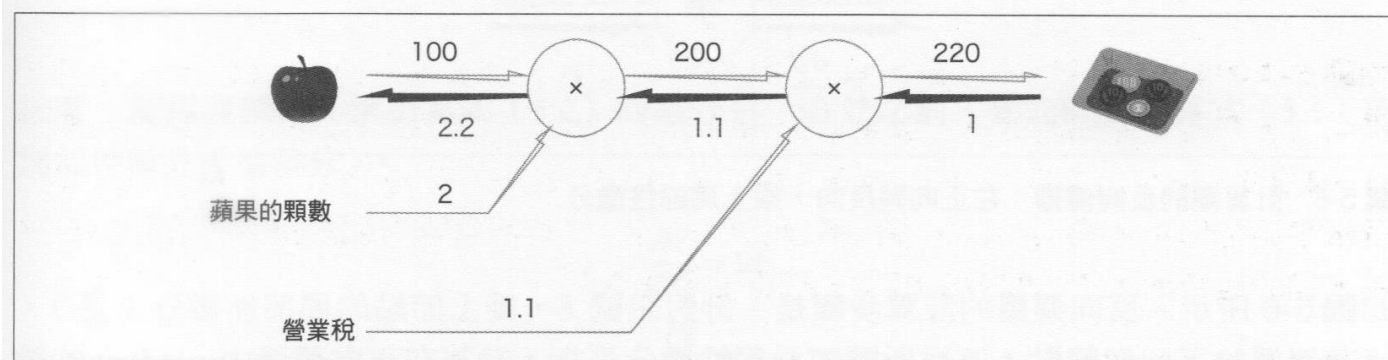
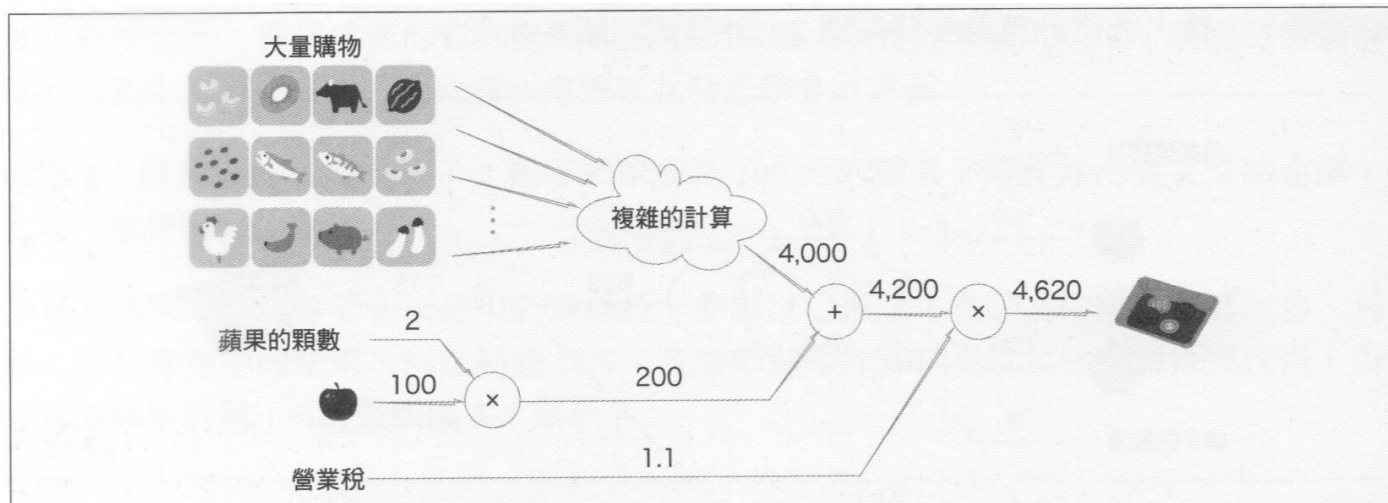


$$\mathbf{W} = \begin{pmatrix} w_{11} & w_{12} & w_{13} \\ w_{21} & w_{22} & w_{23} \end{pmatrix}$$

$$\frac{\partial L}{\partial \mathbf{W}} = \begin{pmatrix} \frac{\partial L}{\partial w_{11}} & \frac{\partial L}{\partial w_{12}} & \frac{\partial L}{\partial w_{13}} \\ \frac{\partial L}{\partial w_{21}} & \frac{\partial L}{\partial w_{22}} & \frac{\partial L}{\partial w_{23}} \end{pmatrix}$$





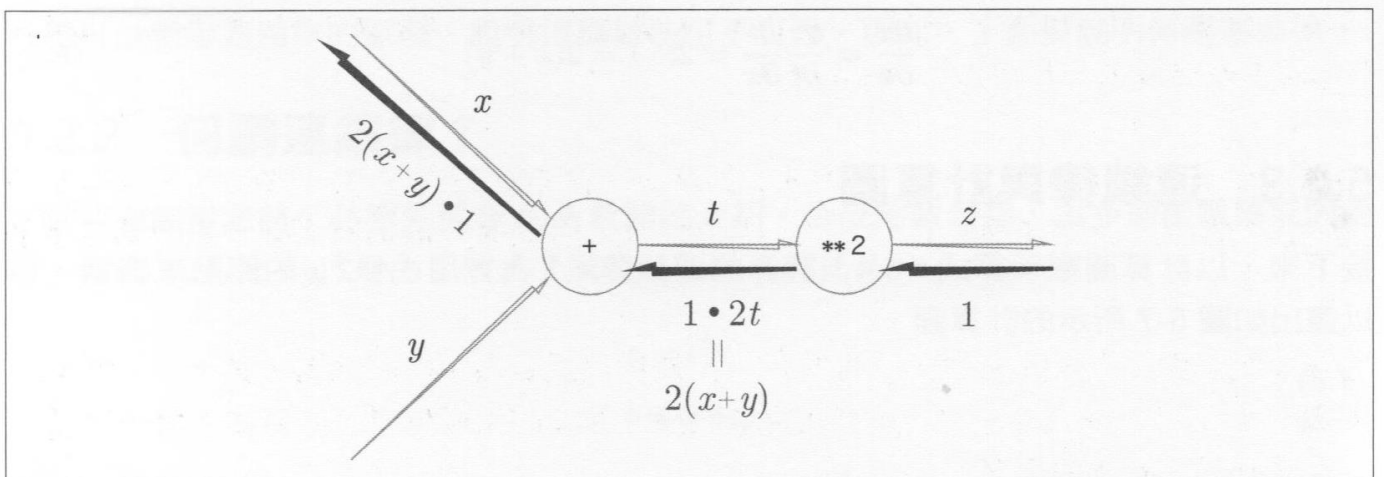
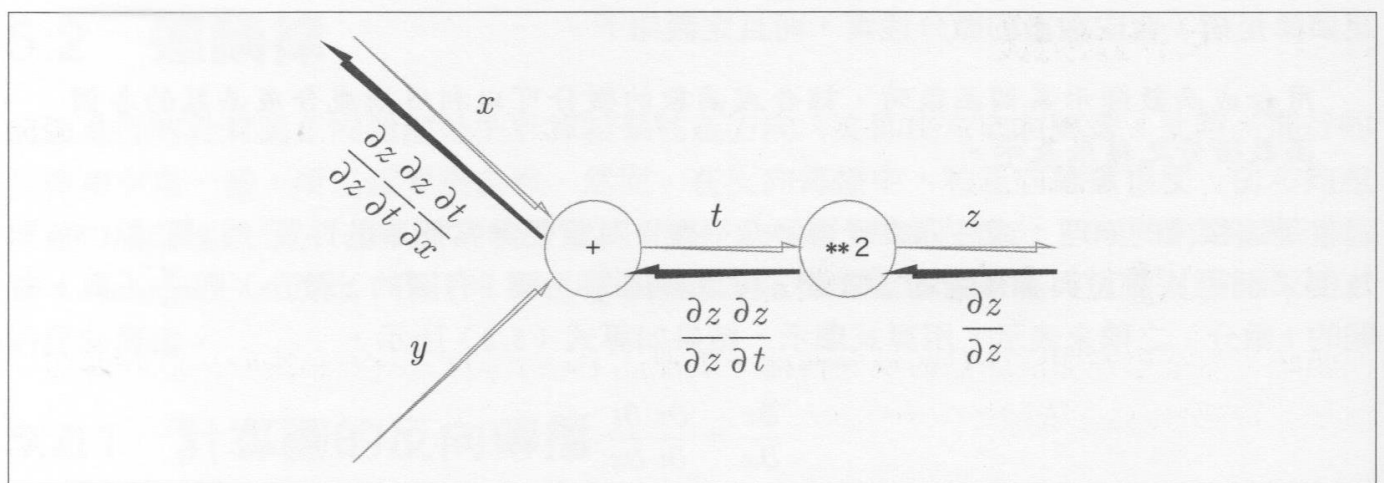
$$\frac{\partial z}{\partial x} = \frac{\partial z}{\partial t} \frac{\partial t}{\partial x}$$

$$\frac{\partial z}{\partial x} = \frac{\partial z}{\cancel{\partial t}} \cancel{\partial t} \frac{\partial t}{\partial x}$$

$$\frac{\partial z}{\partial t} = 2t$$

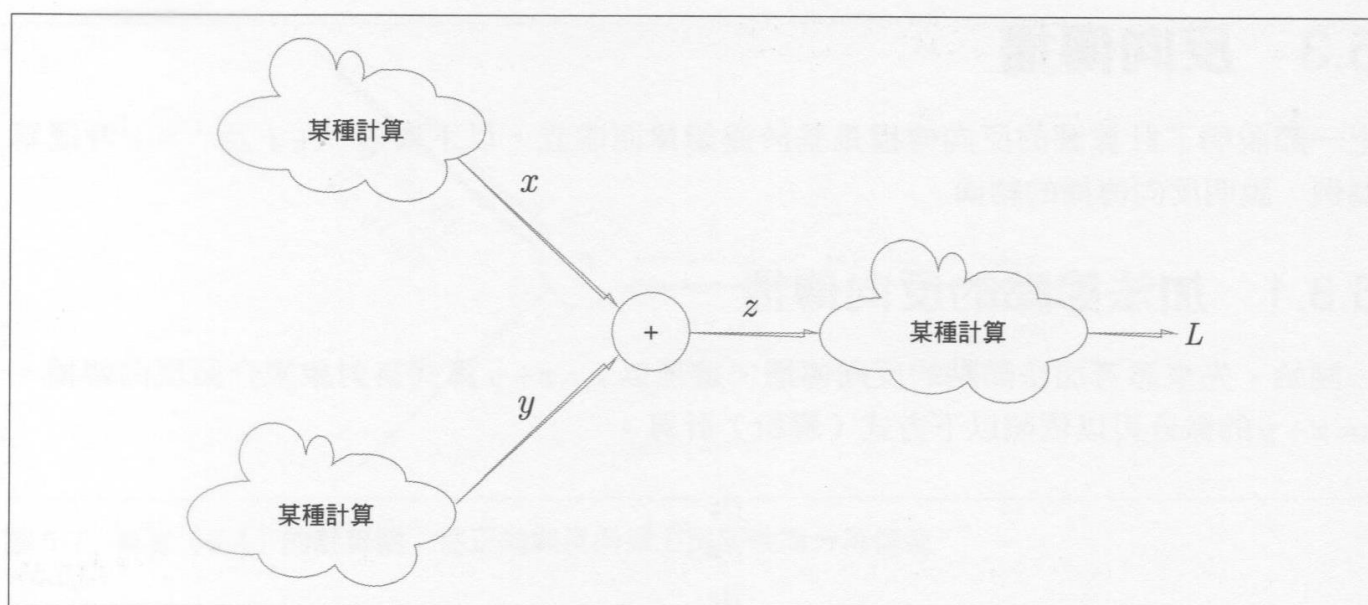
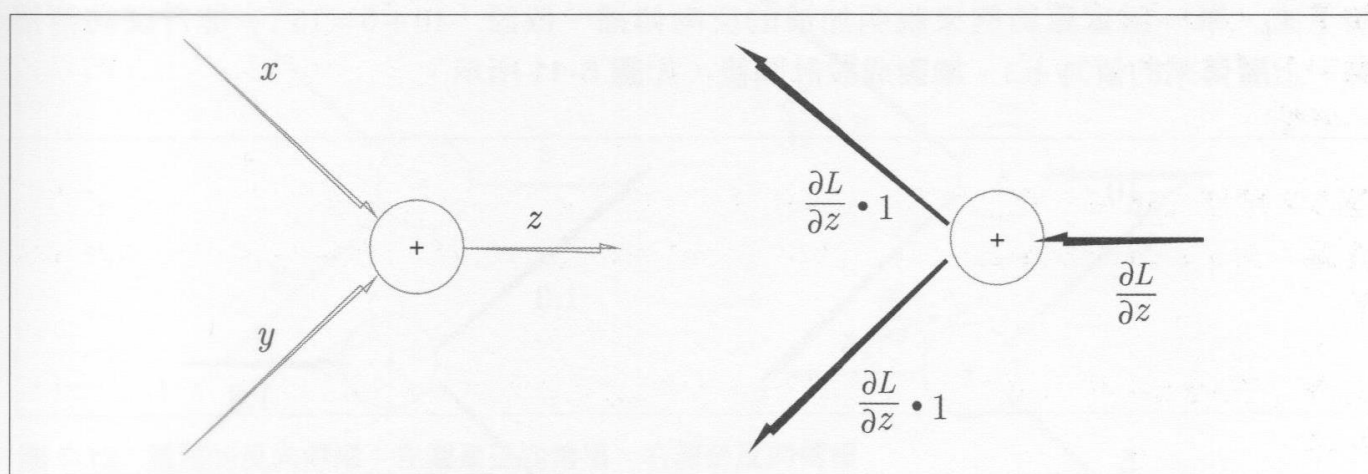
$$\frac{\partial t}{\partial x} = 1$$

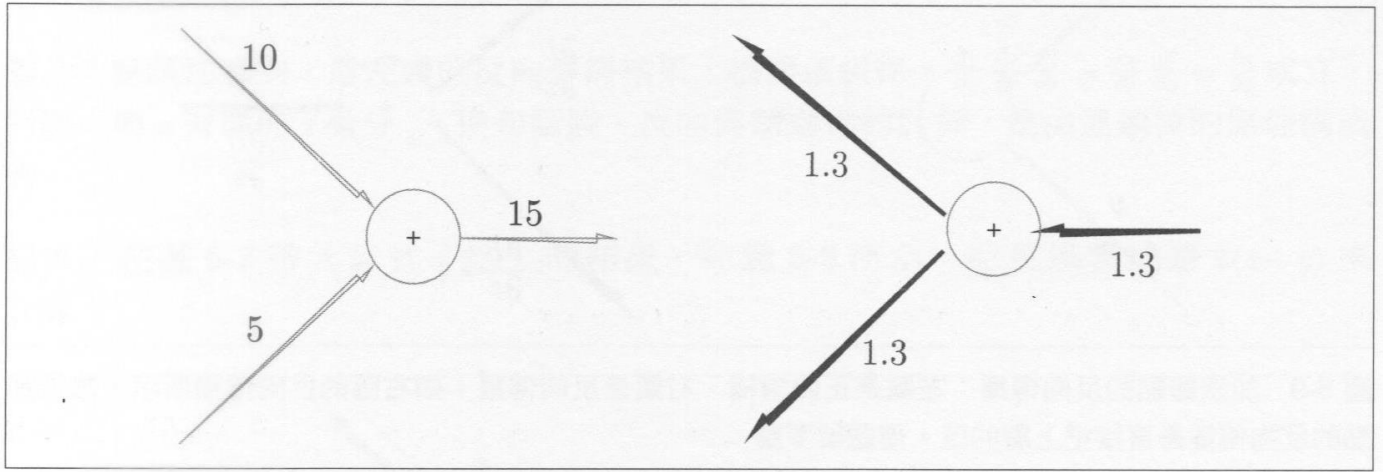
$$\frac{\partial z}{\partial x} = \frac{\partial z}{\partial t} \frac{\partial t}{\partial x} = 2t \cdot 1 = 2(x + y)$$



$$\frac{\partial z}{\partial x} = 1$$

$$\frac{\partial z}{\partial y} = 1$$





$$\frac{\partial z}{\partial x} = y$$

$$\frac{\partial z}{\partial y} = x$$

