$$\begin{array}{c|c} \mathcal{K}_{1} \\ \mathcal{N}_{2} \\ \end{array}$$

$$\begin{array}{c|c} \mathcal{K}_{1} \\ \mathcal{N}_{1} + \mathcal{N}_{1} \\ \end{array}$$

$$\begin{array}{c|c} \mathcal{K}_{1} \\ \mathcal{N}_{1} + \mathcal{N}_{2} \\ \end{array}$$

$$\begin{array}{c|c} \mathcal{K}_{1} \\ \mathcal{N}_{2} \\ \end{array}$$

$$\begin{cases}
(n+y) = \frac{n_1+y_1}{2} \\
(n_1+y_1) + (n_1+y_2) \\
2 \\
(n_1+y_2) + (n_1+y_2) \\
2 \\
($$

$$f(n+y) = \begin{bmatrix} x_1 \\ (n+x_1) \\ \vdots \\ (n+x_n) \end{bmatrix} + \begin{bmatrix} y, \\ (y_1+y_2) \\ \vdots \\ (y_n+y_{n-1}) \\ y_n \end{bmatrix}$$

$$f(n+y) = f(n) + f(y) - (1)$$

$$f(\alpha x) = \begin{cases} \alpha x_1 \\ (\alpha x_1 + x_2) \end{cases} = \alpha \begin{cases} x_1 \\ (x_1 + x_2) \end{cases} = \alpha \begin{cases} x_1 \\ (x_1 + x_2) \end{cases}$$

$$(\alpha x_1 + \alpha x_2) = \alpha \begin{cases} (\alpha x_1 + x_2) \\ (\alpha x_2 + \alpha x_2) \end{cases} = \alpha \begin{cases} (\alpha x_1 + x_2) \\ (\alpha x_2 + \alpha x_2) \end{cases}$$

(iii)
$$S: R^n \rightarrow R^n$$

$$\begin{cases}
\pi_1 \\
\pi_2
\end{cases} = \begin{cases}
m_{nn}(\pi_1, 0) \\
m_{nn}(\pi_2, 0)
\end{cases}$$

$$f(ax) = \begin{cases}
m_{nn}(ax_1, 0) \\
m_{nn}(ax_2, 0)
\end{cases}$$

$$f(ax) \neq a \cdot f(x) \quad \{because \ a \ con \ change \\
f(x) = f(x)
\end{cases}$$

$$f(x) = \begin{cases}
1 \\
1 \\
1
\end{cases}$$

$$f(ax) = \begin{cases}
0 \\
0 \\
0
\end{cases}$$

$$f(x) = \begin{cases}
1 \\
1
\end{cases}$$

$$f(x)$$