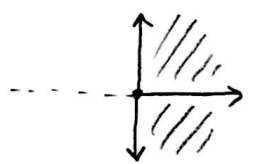
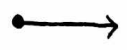


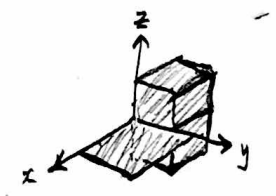
Ⓐ proper



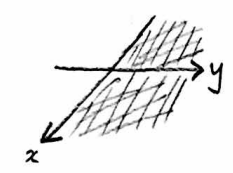
$$\downarrow [1 \ 0] = \pi$$



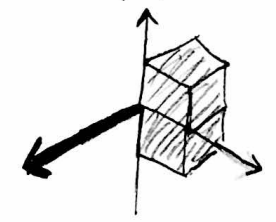
Ⓑ not proper



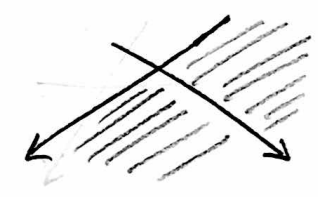
$$\downarrow \pi = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$



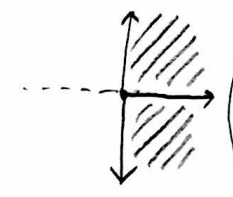
Ⓒ not proper



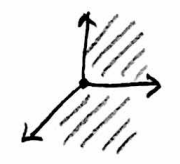
$$\downarrow \pi$$



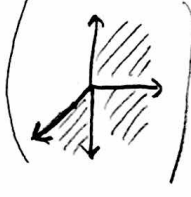
Ⓓ not proper



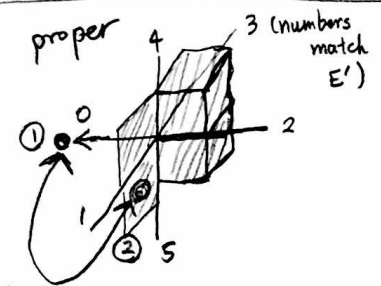
$$\downarrow Id$$



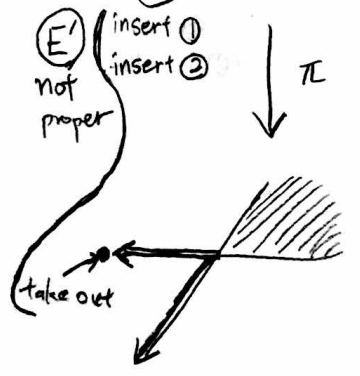
Ⓓ' proper



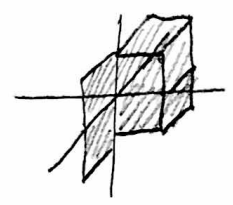
Ⓔ not proper



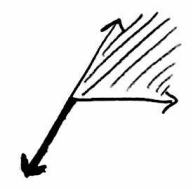
$$\downarrow \pi$$



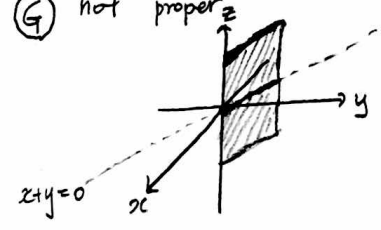
Ⓕ proper



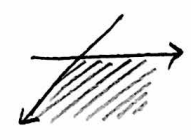
$$\downarrow \pi$$



Ⓖ not proper

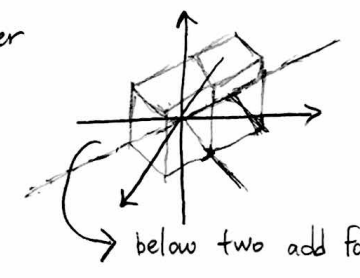


$$\downarrow A = \begin{bmatrix} 1 & 1 & 0 \\ 1 & 1 & 0 \end{bmatrix}$$



Ⓗ not proper

Ⓗ' proper



$$\downarrow A = \begin{bmatrix} 1 & 1 & 0 \\ 1 & 1 & 0 \end{bmatrix}$$

