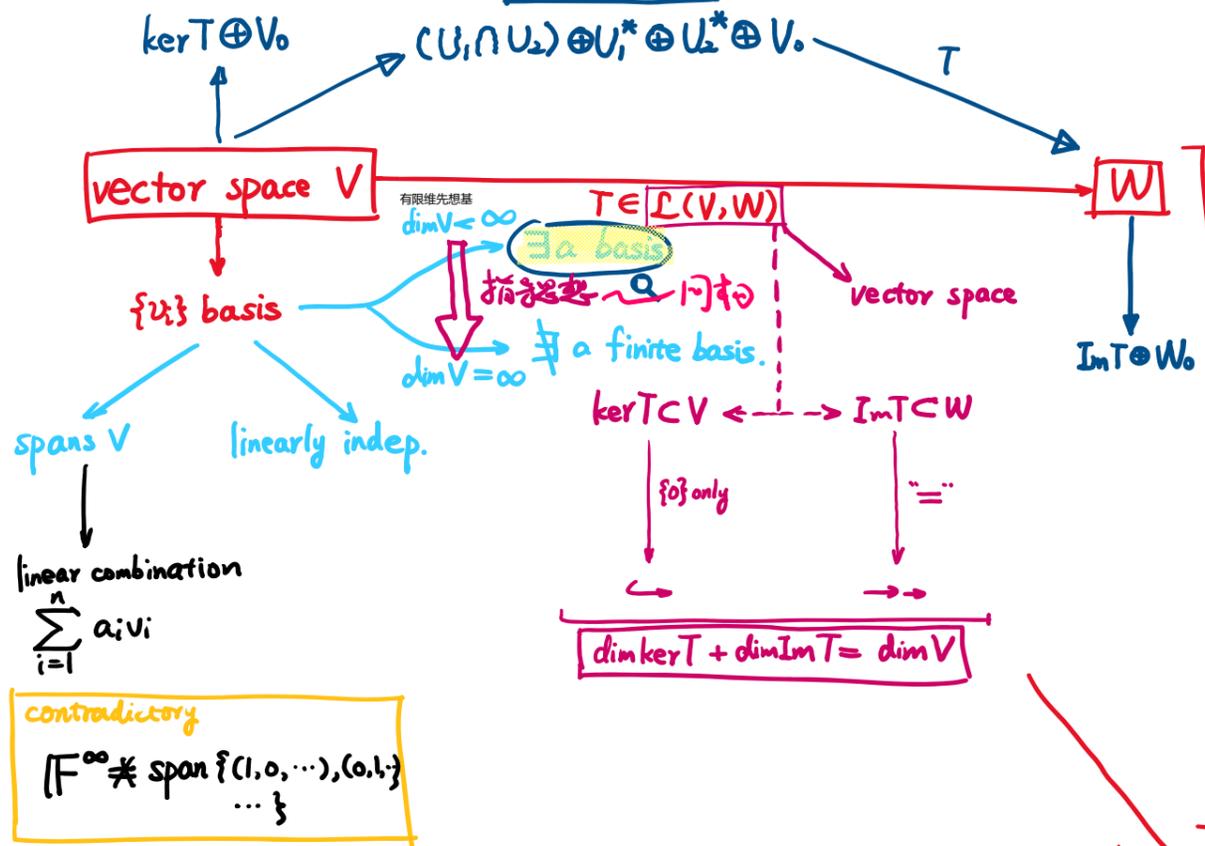


予定 Fri. 4:00 ~ 6:00 PM



張号と一緒に (3/4) 加 2L!

題目全書 10/15

$U \subset V$
 $V/U := \{\bar{v}\} = \{v+U \mid v \in V\}$
 $(\dim V - \dim U)$

$V/\ker T \cong \text{Im } T$

$\pi: V \rightarrow V/U$
 $v \mapsto \bar{v}$ (同相)
 + FTLA

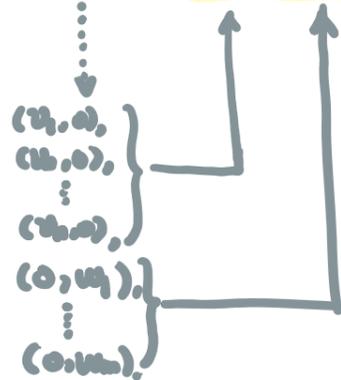
$\tilde{T}: V/\ker T \rightarrow W$
 $u + \ker T \mapsto Tu$

典範映射 (同相)

同相.

contradictory
 $[F^\infty \neq \text{span}\{(1,0,\dots), (0,1,\dots)\}]$

$V \times W$ ($\dim V + \dim W, < \infty$)



$V' := \mathcal{L}(V, F) \cong V$
 basis of V $v_i \leftrightarrow v'_i$ basis of V'

$v'_i(v'_j) = \begin{cases} 1, & i=j \\ 0, & i \neq j \end{cases}$
 Boolean Type Construction

annihilator
 $V' \supset U^\circ = \{\varphi \in V' \mid \forall u \in U, \varphi(u) = 0\}$
 $\dim U + \dim U^\circ = \dim V$!

$i: i(u) = u$
 $i': V' \rightarrow U'$

!
 $V'' := \mathcal{L}(V', F)$
 $v''(f) = f(v)$

$(v, f) = (f, v) = f(v) = v(f)$

$\Delta: (\Delta u)(\varphi) = \varphi(u)$

