$$\exists ! P : \bigvee \rightarrow \bigvee \text{ s.t. } B(y, x) = B(P_x, y).$$
bijective

|\text{ww}

$$(c_{ij}) = (c_{ij})(b_{ij})^{-1}(b_{ij})$$

$$B(Lx,y) = B(Lcx,y) \longrightarrow B(Lx-Lcx,y) = 0 \Rightarrow L-L_c = 0.$$

(8)
$$U \otimes V : \chi \longmapsto B(\chi, u) \gamma$$

$$\chi \mapsto \langle \chi \rangle (b_{ij})(u) \cdot v$$

$$e_{i} \longmapsto (e_{i} (b_{ij})(u)) v$$

$$e_{i}(b_{ij}) = i^{th} row (b_{ij})$$

$$(b_{ij})_{j} \cdot (u_{j}) \cdot v$$

$$i^{th} entry : \left(\sum_{j} b_{ij} u_{j}\right) v_{i} =$$