



$$\pi_1(U) = \langle a, b \rangle$$

$$\pi_1(V) = \{e\}$$

$$\pi_1(U \cap V) = \langle b \rangle$$

$$[g]_U = b$$

$$[g]_V = e$$

$$[g]_{U \cap V} = b$$

$$[g]_{U \cup V} = e$$