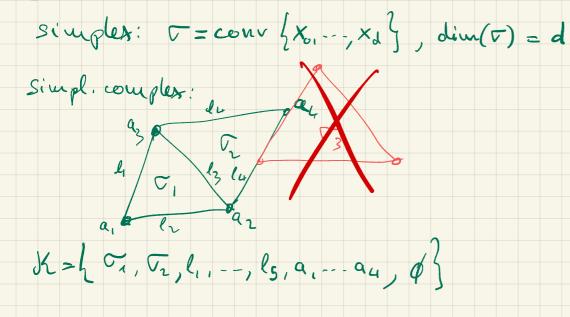
## COMPLEXES

A polyhedral complex is any collection K of polyhedra, such that simplicial complex simplices

1) K contains all faces of each of its members

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## COMPLEXES

A polyhedral complex is any collection K of polyhedra, such that simplicial complex fan cones

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Let K, poly complex in R, K, poly cx. in R.

A linear isomorphism K\_=K\_ is a linear p: R" - R" s.t

is bijective.

NORMAL FANS (P9w) P P Let P be a polyhedron in R" and let we R" Define: [P1w]: = arg max <×1w> ×EP  $Q \in [P^{+}w]$ = {xeP ( < x w > > < y w > ¥yeP} P. V. Let P be a polytope, Q any face of P. Set  $N_{Q} := \{ w \in \mathbb{R} \mid Q \subseteq [P \cap w] \}$  $\left(\begin{array}{c} & N_{Q_2} \\ & Q_2 \\ & Q_1 \\ & Q_1 \\ & &$ Not is a come, whose faces are Ng, Q'2Q N(P) = {NQ}Q face of P fan to P