

DAVIDE SPRIANO, OXFORD

UNIQUELY GEODESIC GROUPS

j. w.

ELDER, GARDAM, PIGGOT, TOWNSEND

G G T:

Geometric PROPERTIES

of GROUP (Cayley GRAPH)



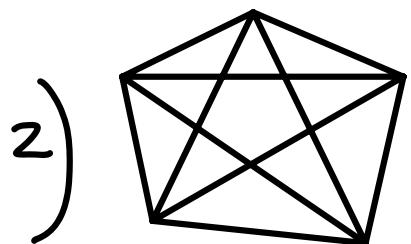
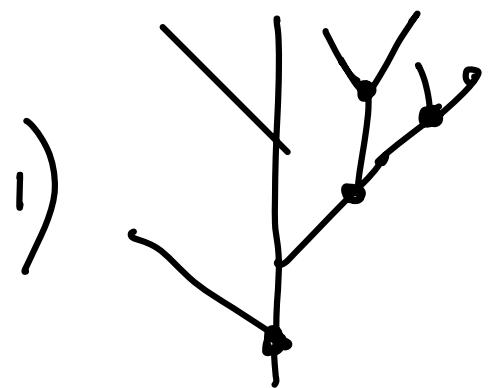
Algebraic PROPERTIES of GROUP

# PROPERTY

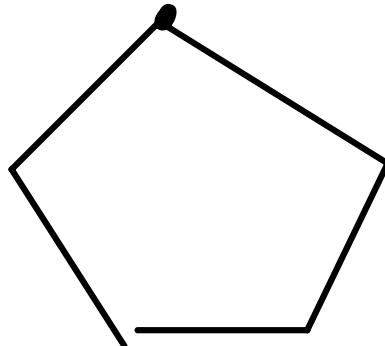
$\Gamma$  ( $Cay G$ ) is UNIQUELY  
GEODESIC if  $\forall v_1, v_2 \in \Gamma^0$

$\exists !$  SHORTEST PATH BETWEEN  
THEM.

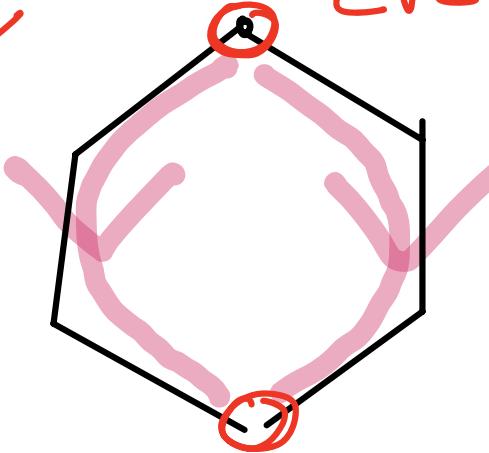
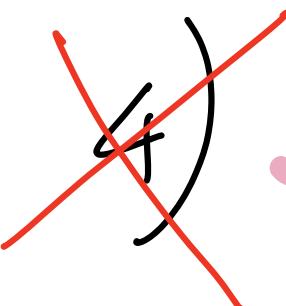
E x |



3)



ODD

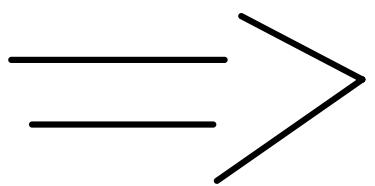


EVEN

Q

G Uniq. Good

Q G Uniq. Geod



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o

THM (PAPASOGLU, ....)

$G_T$  U. G. + HYPERBOLIC

$\Rightarrow G$  VIRTUALLY FREE.

THM

$G$  U.G. group  $\Rightarrow$

$G$  hyperbolic ( $\Rightarrow$  V.F.)

THANK YOU

FOR YOUR

ATTENTION