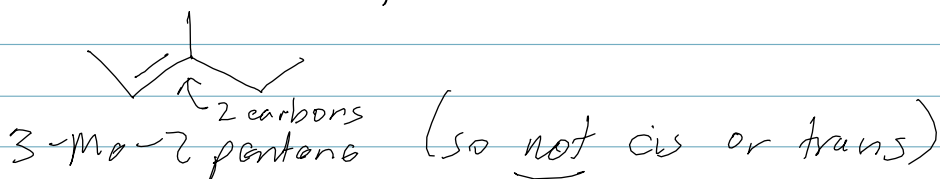
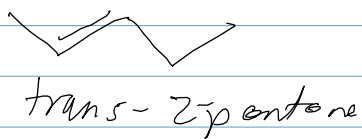
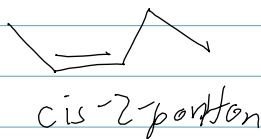
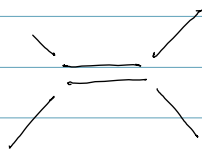


# E & Z Stereoisomers (double bonds)

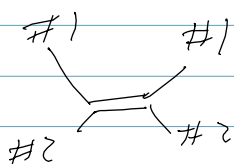
Already - cis & trans  $\Leftarrow$  one group on each end of double bond has C atom



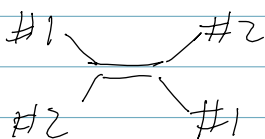
Official method uses CIP system



- 1) Assign priorities on left end (#1 & #2)
- 2) " " " right end (#1 & #2)

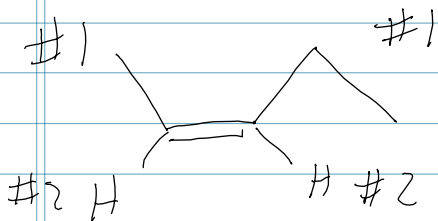


- 3) if #1 groups both point up, or both down, then Z (zusammen) isomer (together)



- 4) if ~~if~~ otherwise  $\Rightarrow$  E (entgegen) isomer (apart)

cis-2-pentene



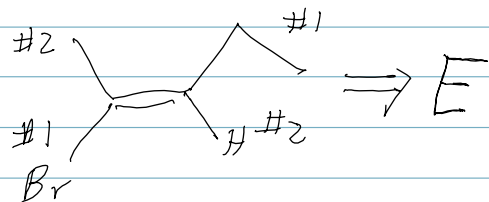
Z-2-pentene

for unsubst linear alkenes

cis  $\Rightarrow$  Z

trans  $\Rightarrow$  E

cis-2-bromo-2-pentene



E, Z isomers  $\Rightarrow$  diastereomers

$\Rightarrow$  "Geometric isomers"