

$N$   
 $G$  zunanje ravniški graf:

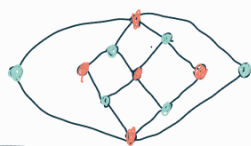
$\exists u \in V_G : \deg_G u \leq 2$  dokazano na pred-uravnju

$N$   
Poloci  $\chi G$  in  $\chi' G$ !



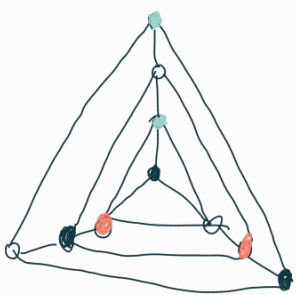
$\chi G \geq 3$  (vsebuje  $K_3$ )

$\chi G = 3$



$\chi G \geq 2$

$\chi G = 2$

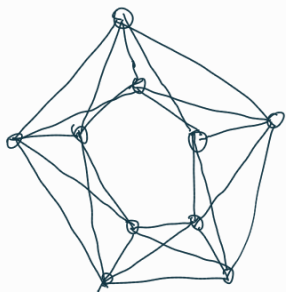


quazino  $K_4 \rightarrow \chi G \geq 4$

$\chi G = 4$  ✓

ravniški:  $\chi G \leq 4$

brojevs:  $\chi G \leq \Delta G$



najdeno  $K_4$ :  $\chi G \geq 4$

$S_4$  se ne da.

$S_5$ ?

$N$   
velikost najvecje neodvisne množice:  $\chi$