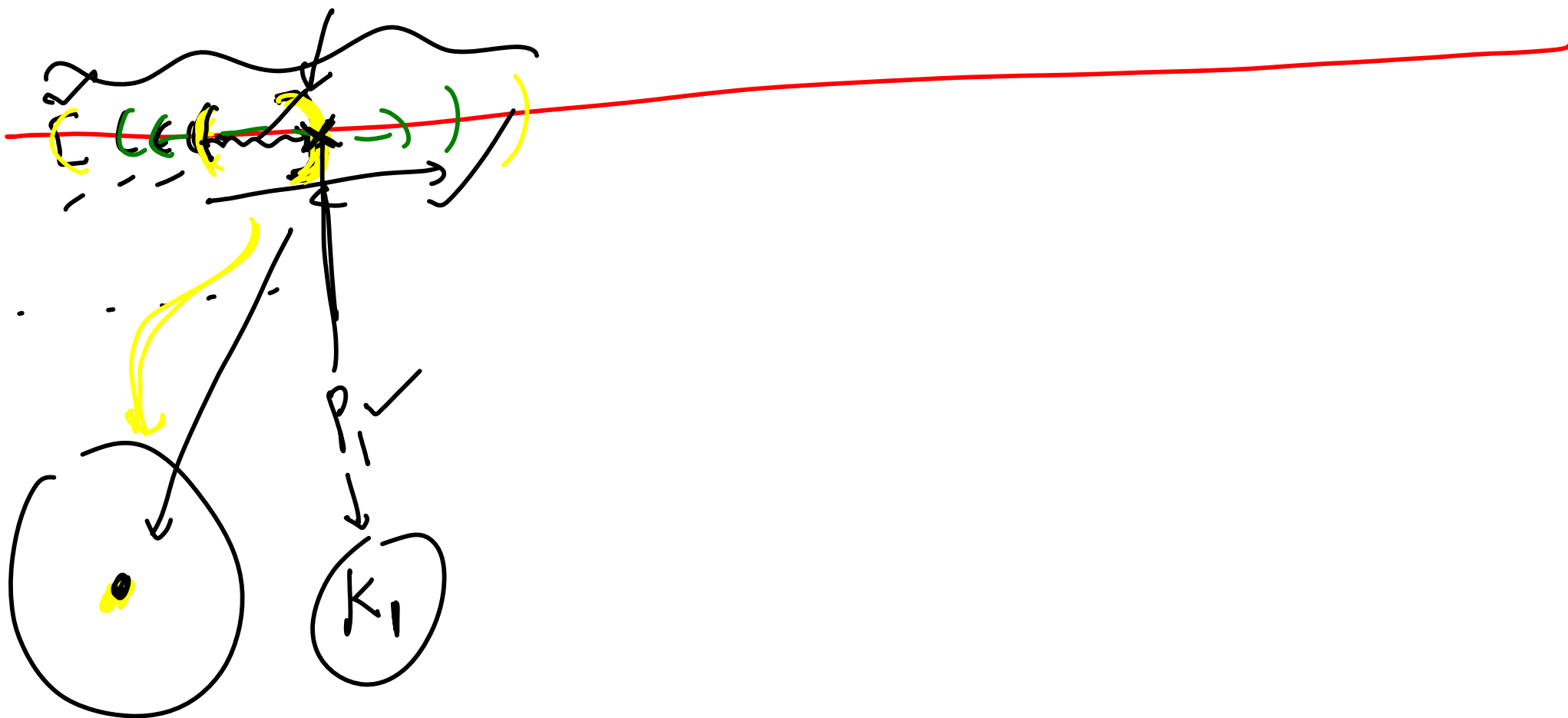
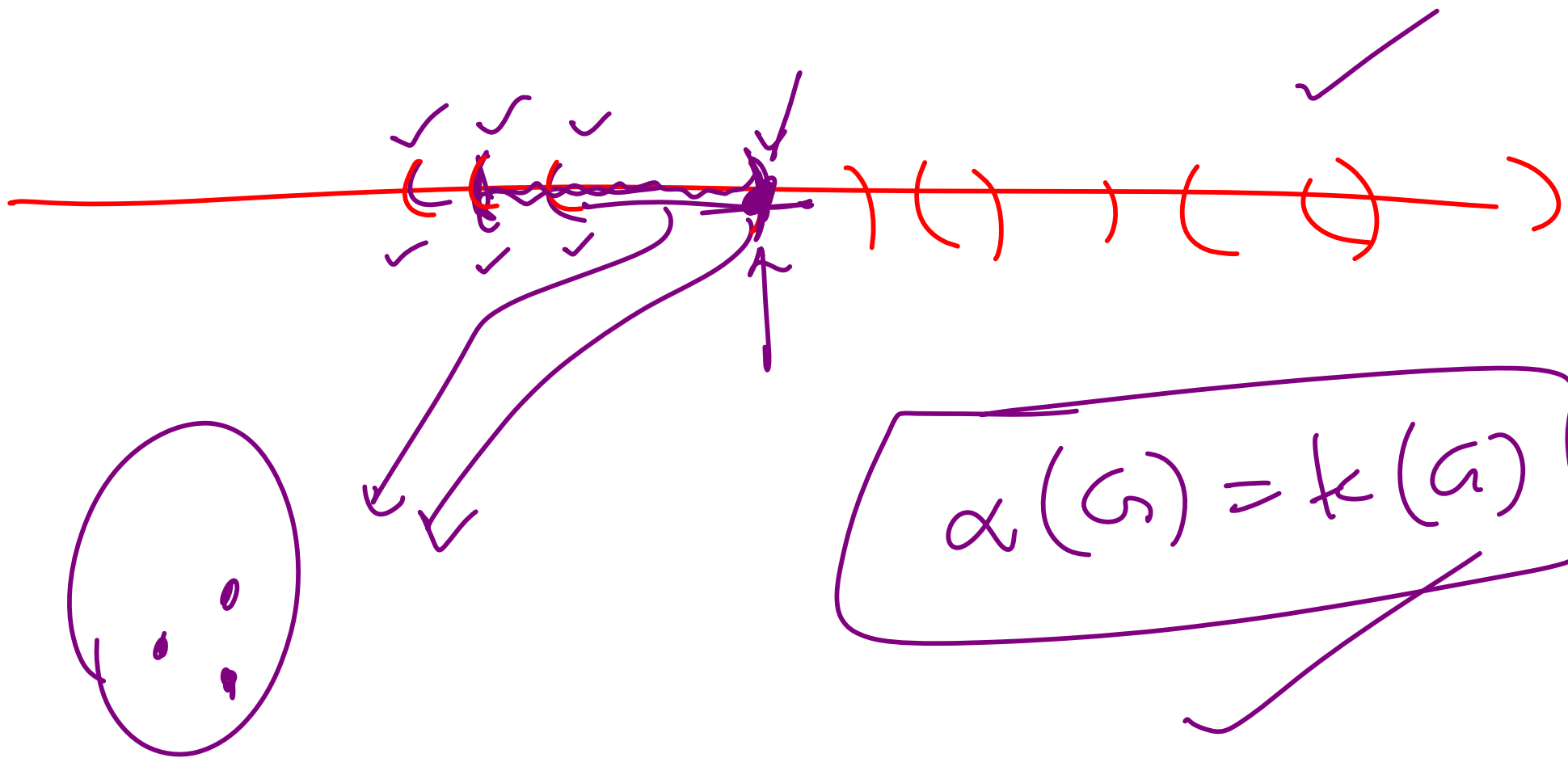


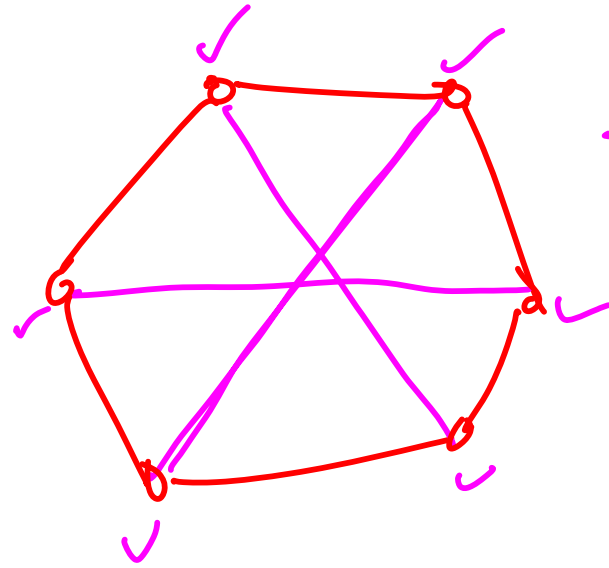
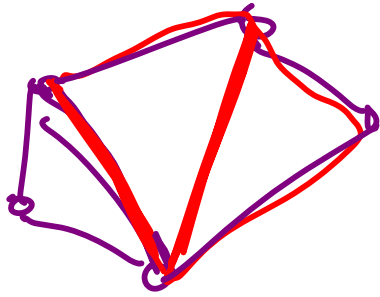
$$k - 1 + 1 = "k"$$

$$\chi(a) = k = \omega(a) \quad \checkmark$$



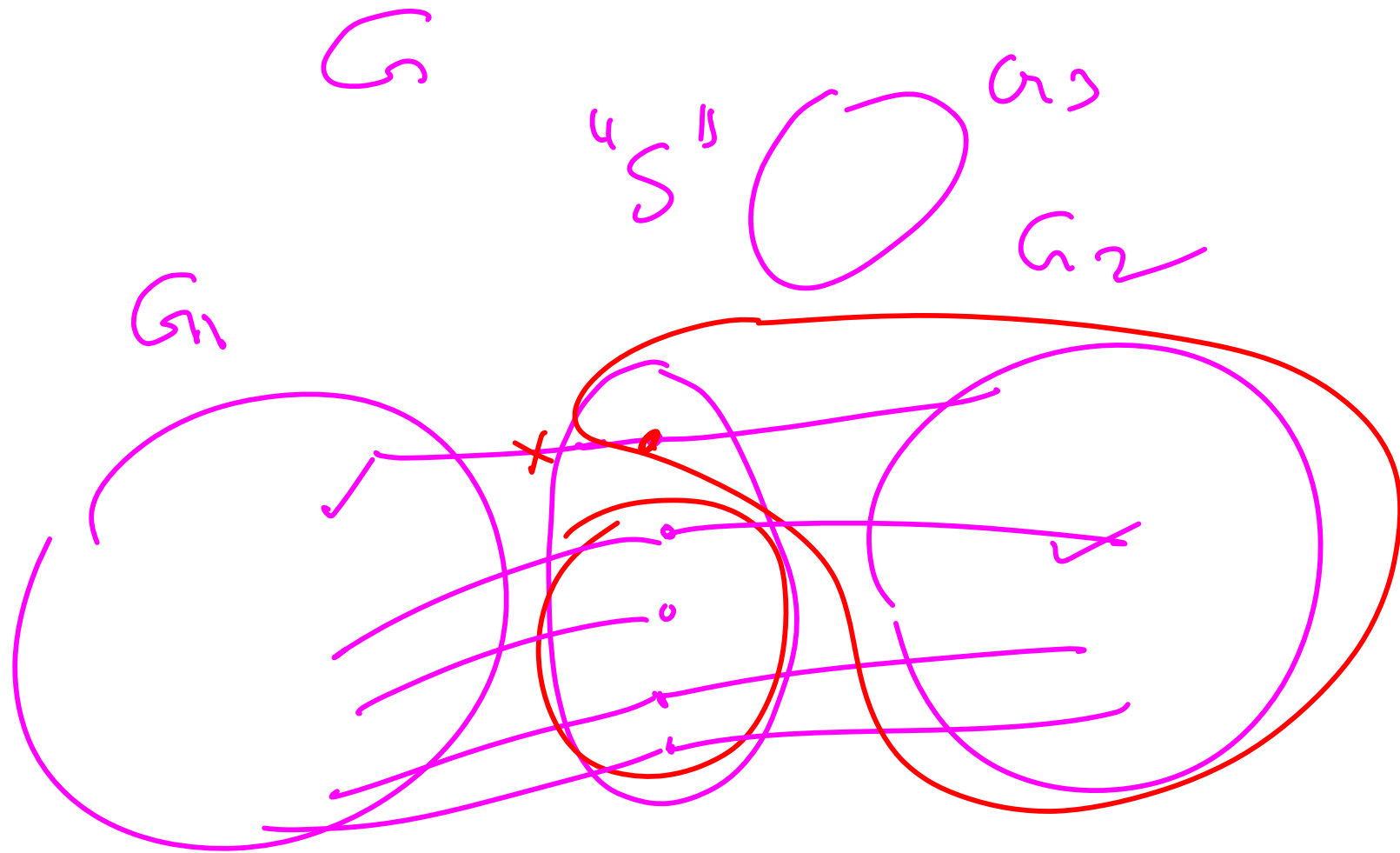


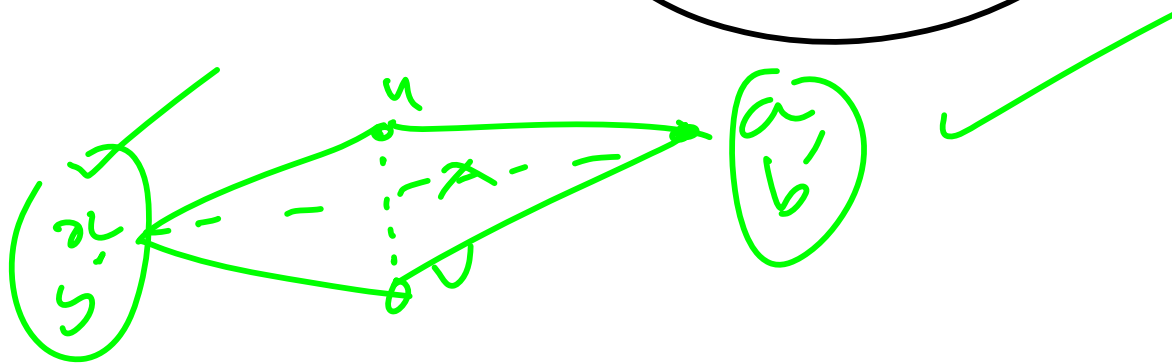
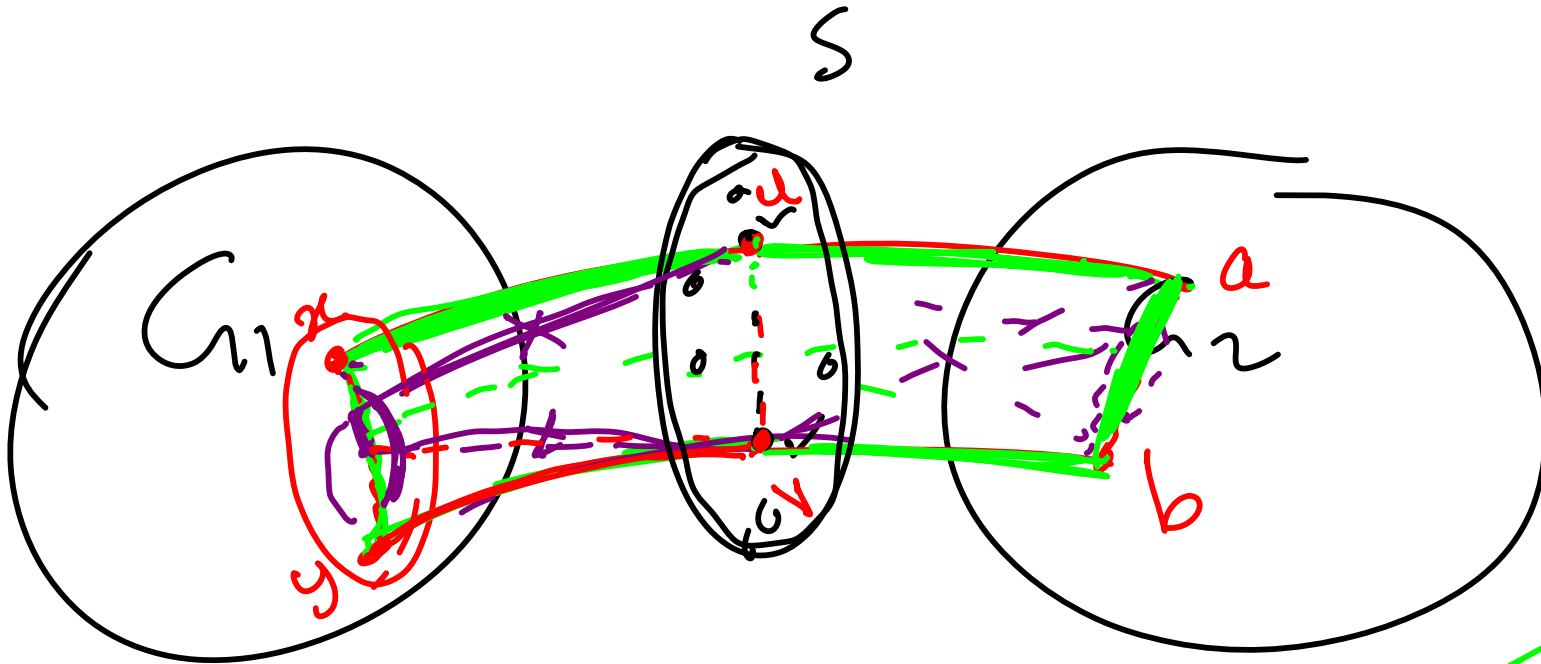
$$\alpha(g) = k(g)$$



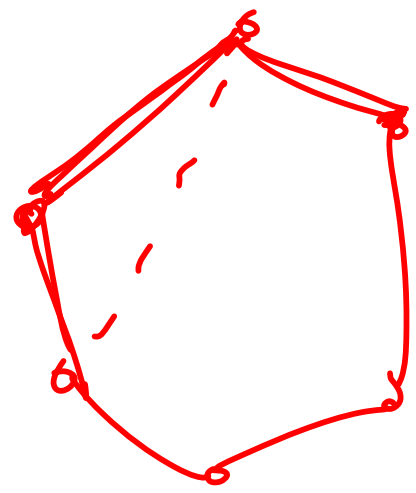
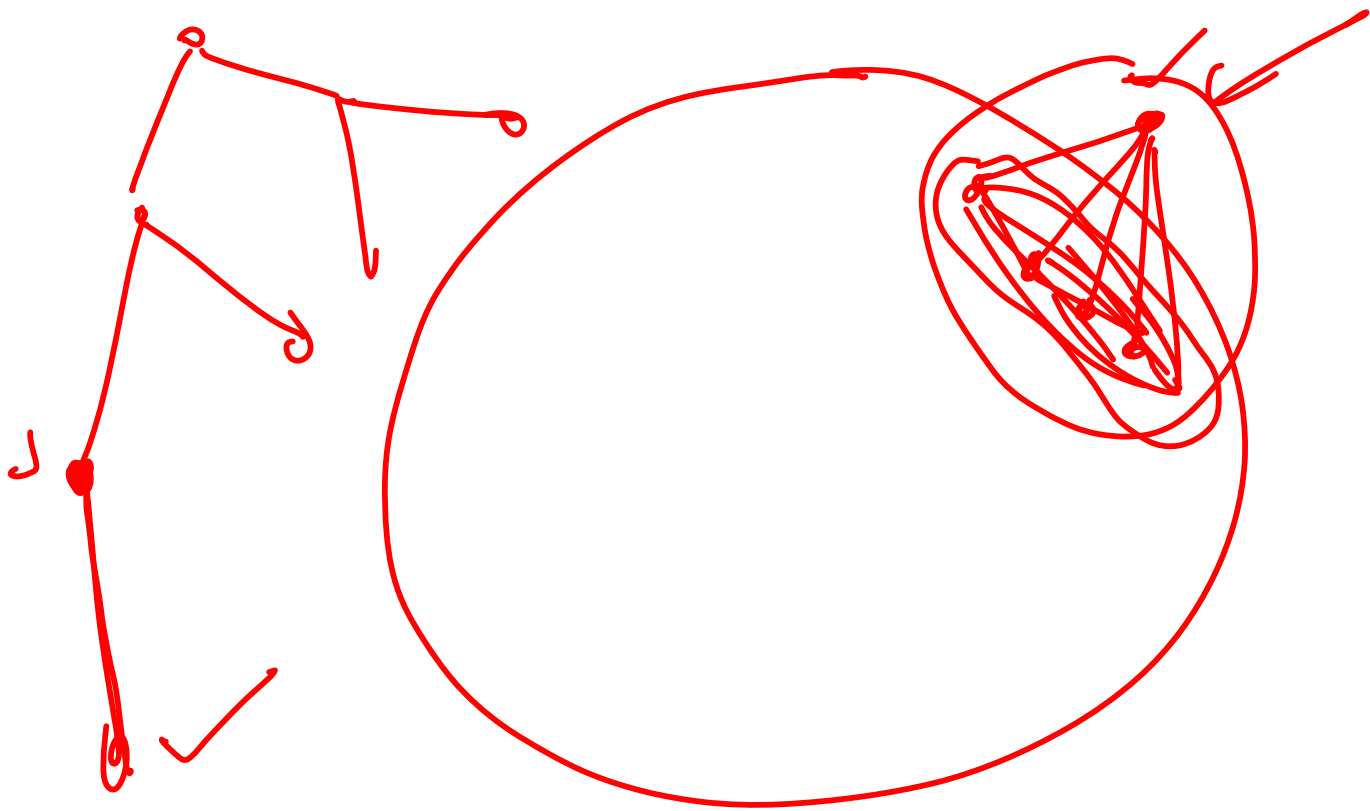
"hole"

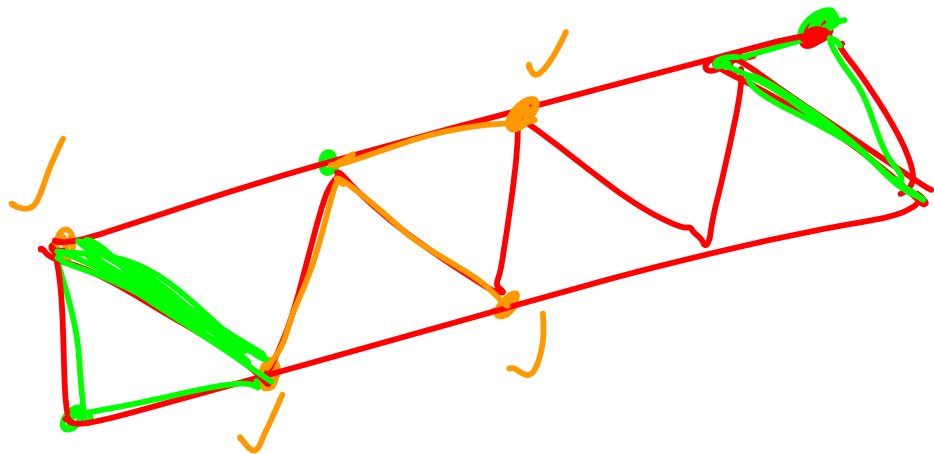
> 3



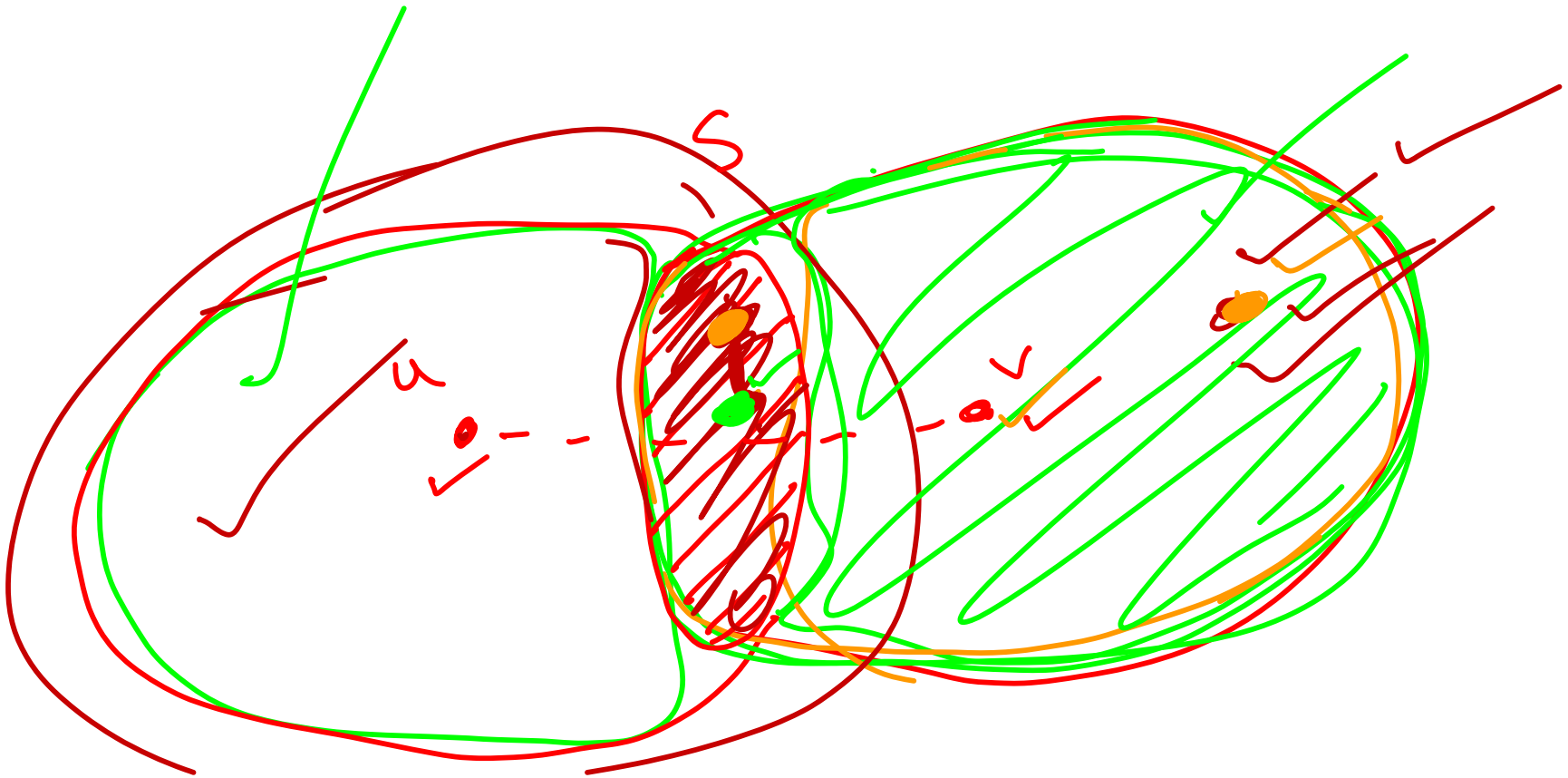


Any minimal separator S
should induce a clique
in a chordal
graph



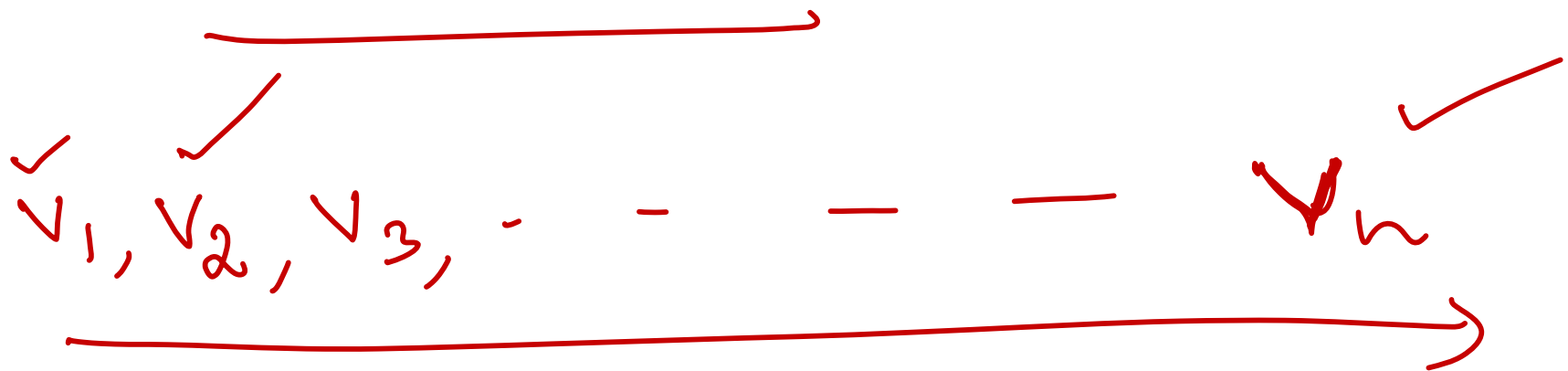


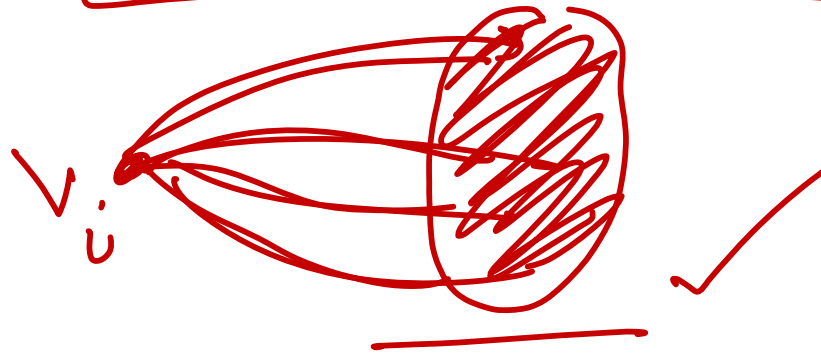
"h"



Perfect Elimination Ordering in a chordal graph

"P.E.O."





$$\chi(\mathcal{G}) = \omega(\mathcal{G})$$



$$\chi \geq \omega$$

$v_1, v_2, v_3, v_4, \dots, v_n$



"k" be

1, 2, 3, ..., k-1



k-1

"k" clique ✓

$$\chi(G) = k = \omega(G)$$

✓

