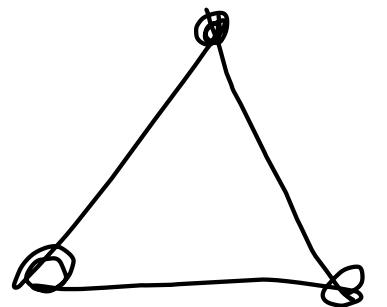
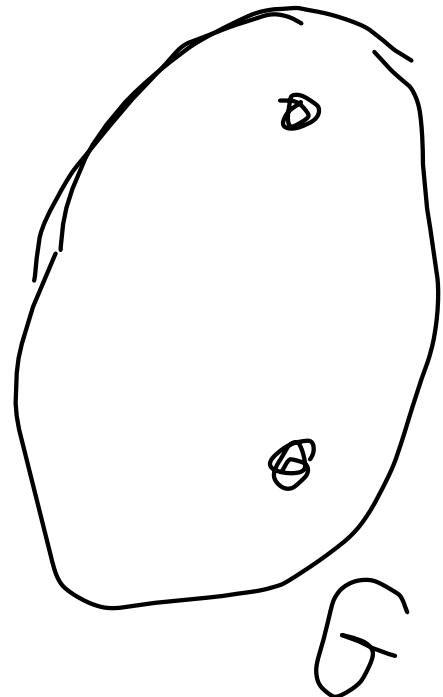


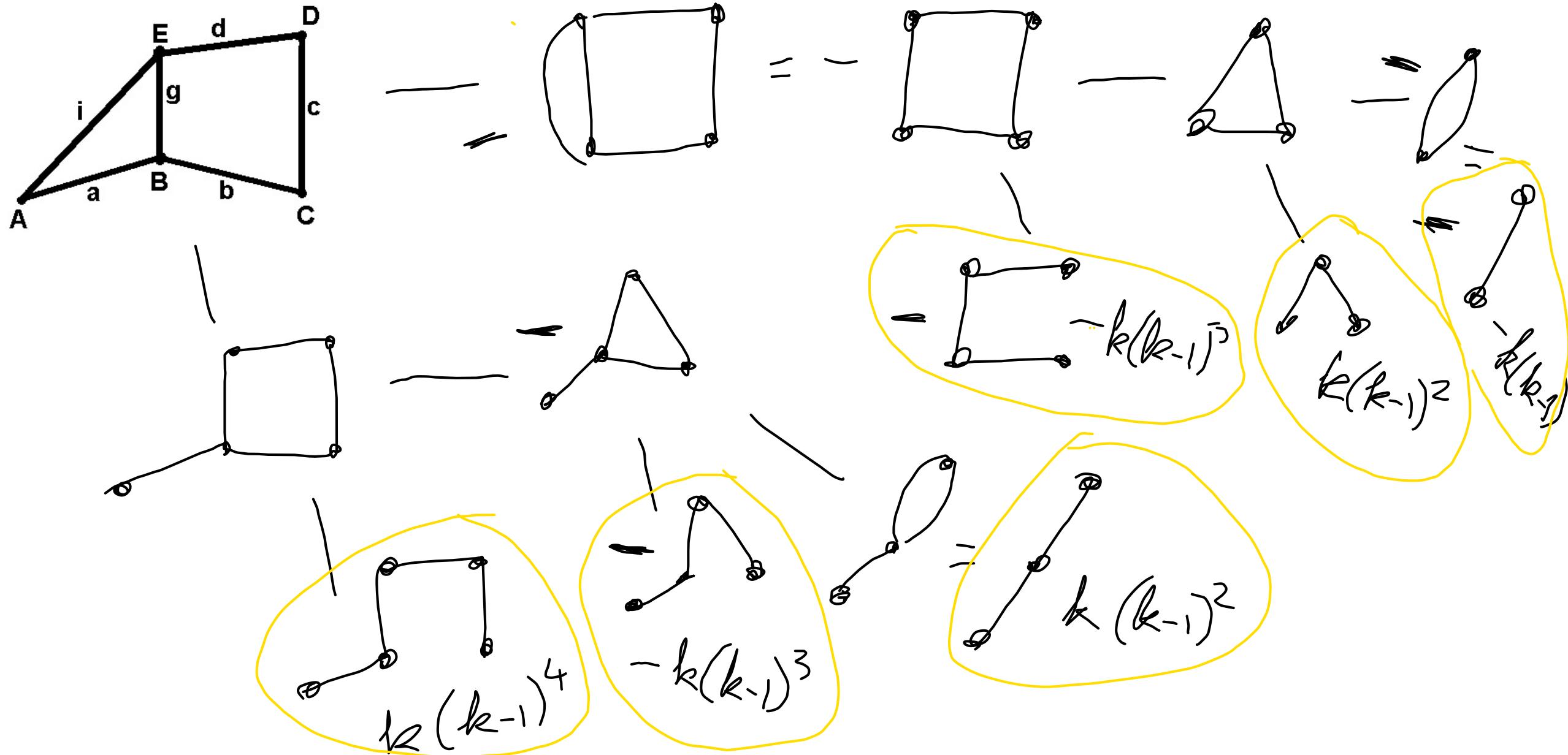
$$\begin{array}{c}
 \text{2} \quad 1 \quad A \\
 | \quad \quad | \quad \quad | \\
 \text{1} \quad 2 \quad B \\
 | \quad \quad | \quad \quad | \\
 \text{k}(\text{k-1}) \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
 G \\
 3 \quad 2 \quad 3 \\
 | \quad \quad | \quad \quad | \\
 3 \quad 1 \quad 3 \quad 2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{l}
 \pi_1(G) = 0 \\
 \pi_2(G) = 2 \\
 \pi_3(G) = 6
 \end{array}$$



$k(k-1)(k-2)$

$$\pi_k(G-e) = \pi_R(G) + \pi_{R-e}(G)$$





$$k(k-1)^4 - 2k(k-1)^3 + 1k(k-1)^2 - k(k-1)$$

$$k^5 - 4k^4 + 6k^3 - 4k^2 + k$$

$$-2k^4 + 6k^3 - 6k^2 + 2k$$

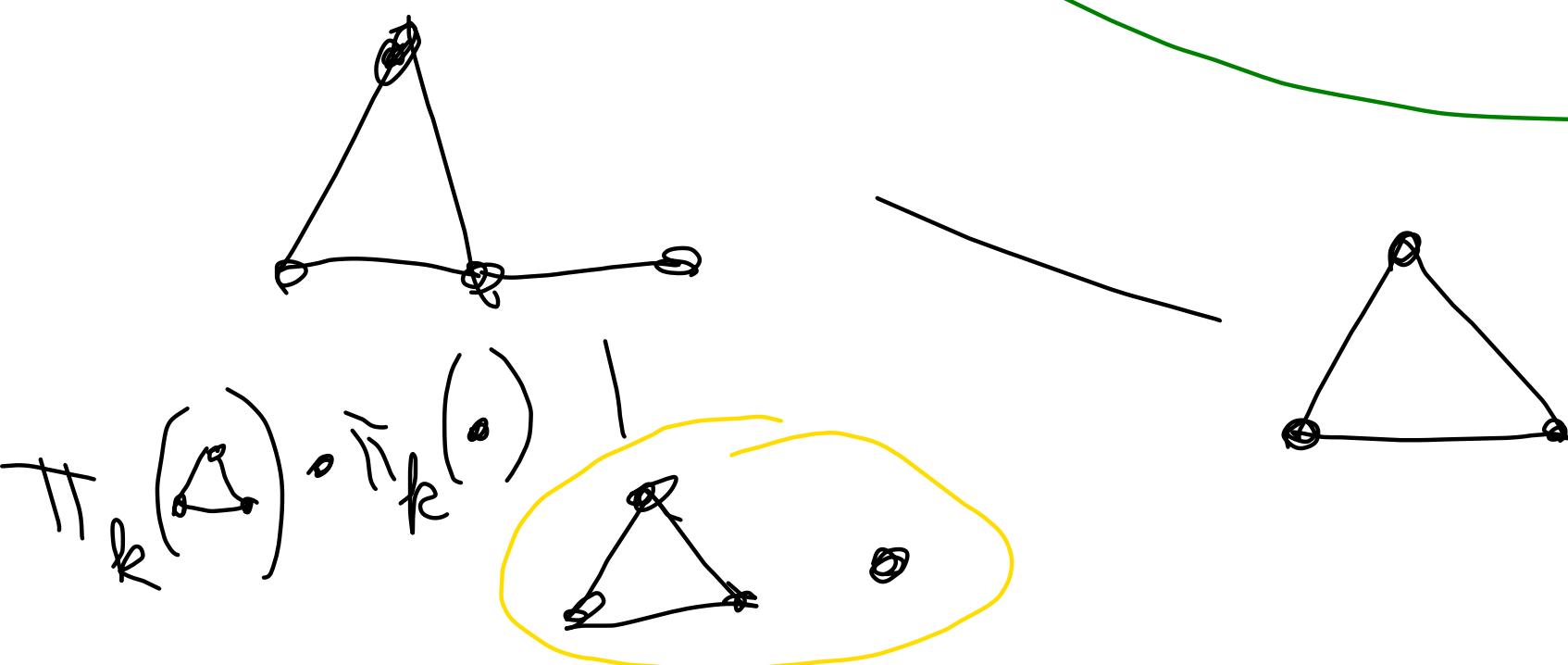
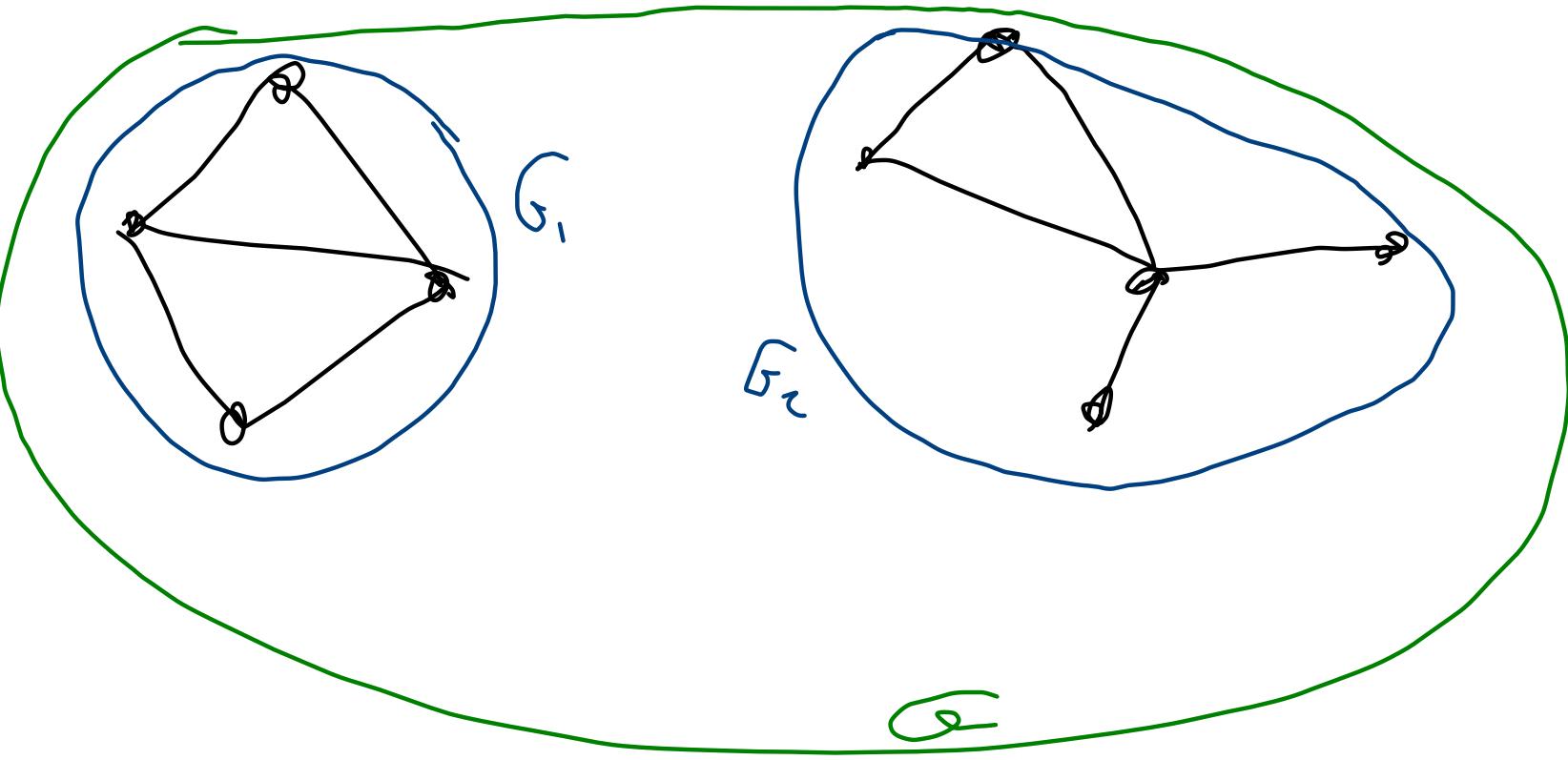
$$+ 2k^3 - 4k^2 + 2k$$

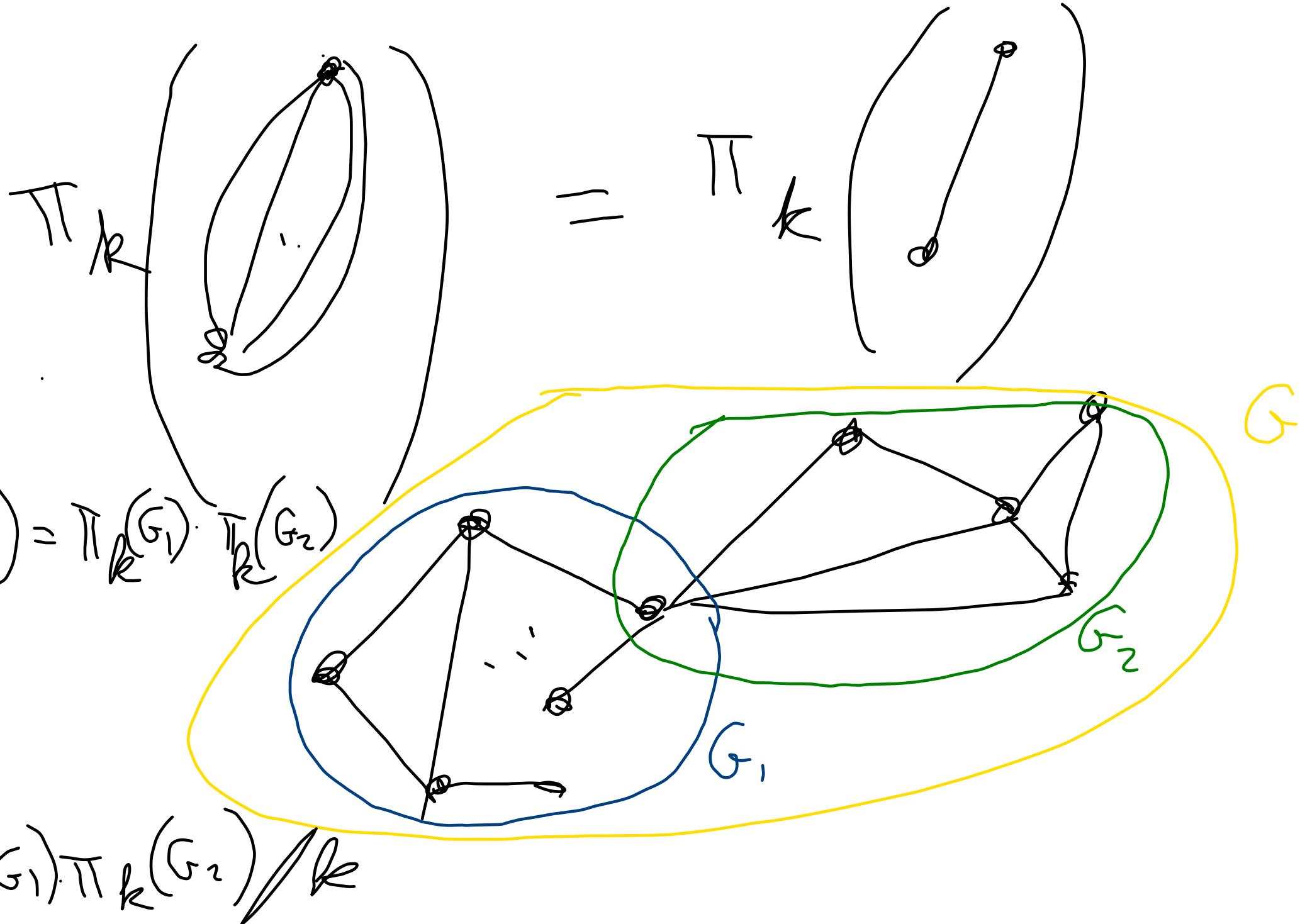
$$-k^2 + k$$

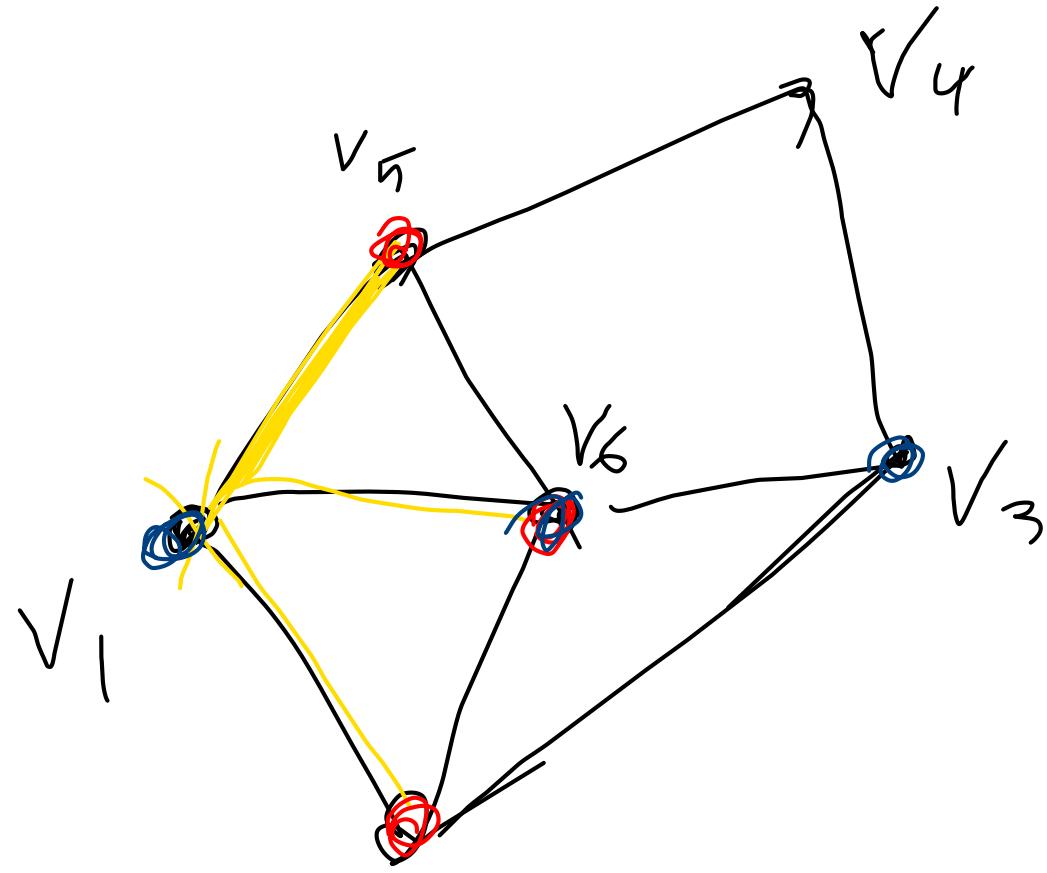
$$\begin{array}{r} \cancel{k^5} \\ \hline k^5 - 6k^4 + 14k^3 - 15k^2 + 6k \\ + \quad - \quad + \quad - \quad + \quad \checkmark \\ 1 \quad 6 \quad 14 \quad 15 \quad 6 \quad \checkmark \end{array}$$

1			
1	1		
1	2	1	
1	3	3	1
1	4	6	4

$$\pi_R(\theta) = \pi_k(G_1) \circ \pi_k(G_2)$$







$$\left(V_1 \text{ OR } \left(V_2 \text{ AND } V_6 \text{ AND } V_5 \right) \right) \text{ AND } \left(V_2 \text{ OR } \left(V_1 \text{ AND } V_6 \text{ AND } V_3 \right) \right) \text{ AND }$$

u	v	$u \wedge v$	$u \wedge v \wedge u$
T	T	T	T
T	F	F	F
F	T	F	F
F	F	F	F

x	y	$x \cdot y$	$x + x \cdot y$
T	T	T	T
T	F	F	T
F	T	F	F
F	F	F	F

$$(A+BE)(B+ACE)(C+BD)(D+CE)(E+ABD) =$$

$$= (AB + \cancel{ACE} + BEB + \cancel{BEC} \cancel{ACE}) (-) =$$

$$= (AB + ACE + BE)(C + BD) (- - =$$

$$= (ABC + ABD + ACE + \cancel{ACEBD} + BEC + \cancel{BED}) \cdot (- - - =$$

$$= (ABC + ABD + ACE + BEC + BED)(D + CE) (- - - =$$

$$\therefore (\cancel{ABCD} + \cancel{ABCCE} + \cancel{ABDD} + \cancel{ABDCE} + \cancel{ACED} + \cancel{ACECF} + \cancel{BCED} + \cancel{BCECF} + \\ + \cancel{BDEDF} + \cancel{BDECCE}) (- - - =$$

$$= (ABD + ACE + BCE + BDE)(E + ABD) =$$

$$= \cancel{ABDE} + \cancel{ABDA} \cancel{BD} + \cancel{ACE} \cancel{E} + \cancel{ACE} \cancel{ABD} + BCE \cancel{E} + \cancel{BCE} \cancel{ABD} + \cancel{BDE} \cancel{E} + \cancel{BDE} \cancel{ABD} =$$

$$= \underbrace{ACE}_{\{A, C, E\}} + \underbrace{BCE}_{\{B, C, E\}} + \underbrace{BDE}_{\{B, D, E\}} \quad \left. \begin{array}{l} \{B, D\} \\ \{A, D\} \\ \{A, C\} \end{array} \right\}$$

