

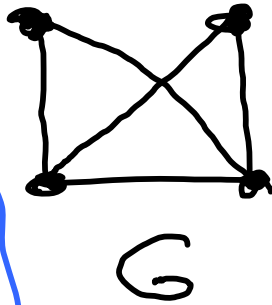
15.03.2017

4 topoloji
5 sayılı

① rank:

r_1
 r_2
 r_3

6 farklı
zenginlik



G grafinin kromatik
polinomu nedir?
contraction

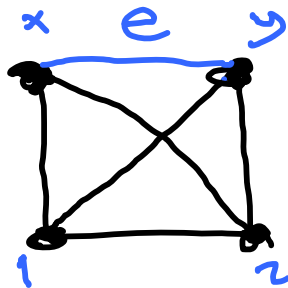
ayrık
↑
sıra

$$\pi_k(G) = \pi_k(G-e) - \pi_k(G \cdot e)$$

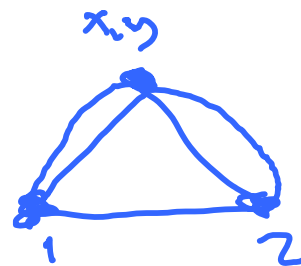
$$\pi_k(G-e) = \pi_k(G) + \pi_k(G \cdot e)$$



=



+



$$= k \cdot (k-1) \cdot (k-2) \cdot (k-3) + k \cdot (k-1) \cdot (k-2)$$

$$= k \cdot (k-1) \cdot (k-2) \int (k-3) + 1$$

$$= k \cdot (k-1) \cdot (k-2)^2$$

$$= (k^2 - k) \cdot (k^2 - 6k + 4)$$

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

$$= k^4 - 5k^3 + 8k^2 - 4k$$

\downarrow 4'üçü
 \downarrow 5'üçü
 \downarrow 1'li üçü!!!

G grafini 3 farklı renk ile:

$$= 3^4 - 5 \cdot 3^3 + 8 \cdot 3^2 - 4 \cdot 3$$

$$= 81 - 135 + 72 - 12$$

=

$$= 6 \text{ farklı şekilde boyanır.}$$