

$$G = (V, E, f)$$

$$V = \{ \text{Szundi, Szende, Nagy, Kuka, ...} \}$$

$$E = \{ e_1, e_2, e_3, e_4 \}$$

$$f: E \rightarrow V \times V$$

$$e_1: \{ \text{Szundi, Tudor} \}$$

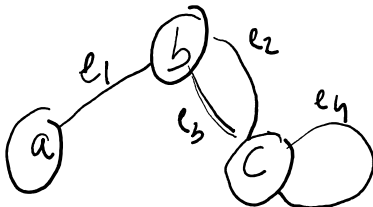
$$e_2: \{ \text{Szundi, Hapci} \}$$

$$f(e_1) = \{ \text{Szundi, Tudor} \}$$

$$N(\text{Hapci}) = \{ \text{Szende, Szundi} \}$$

$$\mathcal{C}(\text{Hapci}) = 2$$

$$I(\text{Hapci}) = \{ e_3, e_2 \}$$



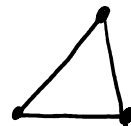
$$\mathcal{C}(c) = 4$$

$$L(c) = \{ e_4 \}$$

$$I(c) = \{ e_2, e_3 \}$$

$n$ -regularis

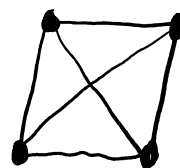
2-regularis gráf



$\leftarrow K_3$

teljes gráf  
 $K_n$

1-regularis gráf



$K_4$

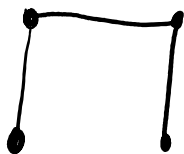


$K_1$

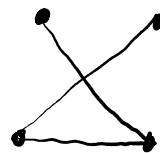
6.1. komplementum - (összesen az adott pontok között)

graf komplementere: (eggszerűen grafokból készíthető)

1.  $G$ :

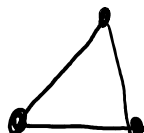


komplementere  $G'$



2.

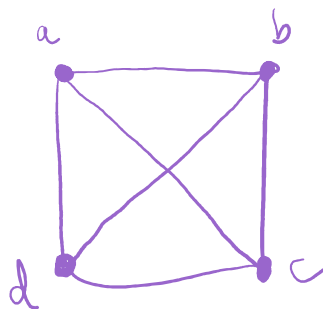
$G$ :



komplementere  $G'$



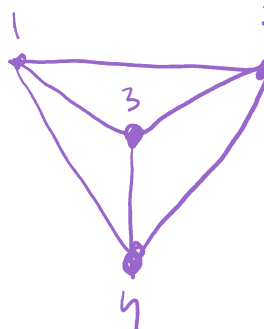
$G_1$ :



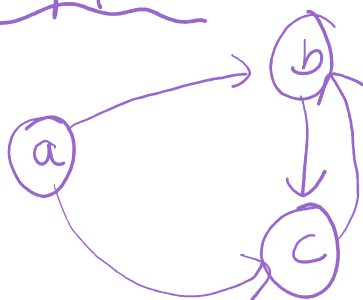
$K_4$

$f$ :

$\chi(G_i)$	a	b	c	d
2	1	3	2	4



Irányított grafok:



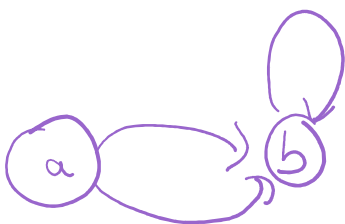
$$H^{ki}(c) = \{b\}$$

$$H^{be}(c) = \{a, b\}$$

$$\varphi^{ki}(c) = 1$$

$$\varphi^{be}(c) = 2$$

$$\varphi^t(c) = 3$$

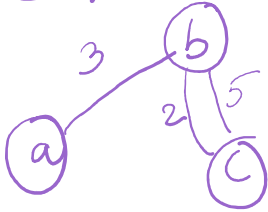


$$\varphi^{ki}(b) = 1$$

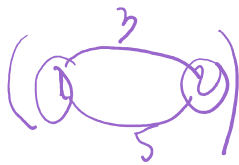
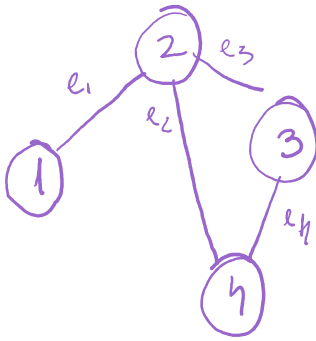
$$\varphi^{be}(b) = 3$$

non-irányított  
Sikeresen oldott

non-üritigelt  
Silypsett graf



Grafde äärdläs:



e'lek listaja: 1 2  
2 3  
2 4  
3 4

stemsidestaji lista: 1.

↓  
silyg

1 : 2  
2 : 1, 3, 4  
3 : 2, 4  
4 : 2, 3

2.  $[2 | * | 1 | 3 | 4 | * | 2 | 4 | * | 2 | 3]$

3.  $[2 | 1 | 3 | 4 | 2 | 4 | 2 | 3]$

$[1 | 2 | 5 | 4]$

4x4-es

stemsidestaji

$$A = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & 1 \\ 0 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{pmatrix}$$

illesskedesi matrix

$$B = \frac{1}{2} \begin{pmatrix} & e_1 & e_2 & e_3 & e_4 \\ 1 & 1 & 0 & 0 & 0 \\ 2 & 1 & 1 & 1 & 0 \\ 3 & 0 & 0 & 1 & 1 \\ 4 & 0 & 1 & 0 & 1 \end{pmatrix}$$

m x m-es