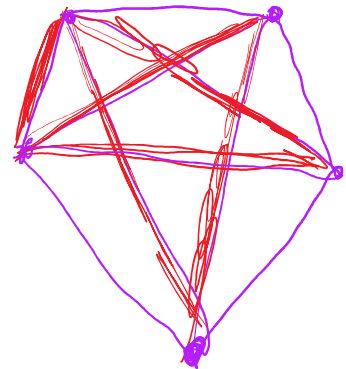
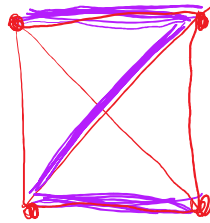
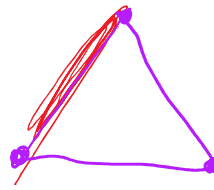
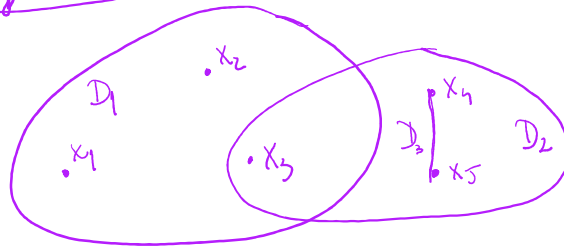


lila - ismeri egyenest  
piros - nem ismeri egyenest

$$R(3,3) = 6$$



Hipergráf



$$X = \{x_1, x_2, x_3, x_4, x_5\}$$

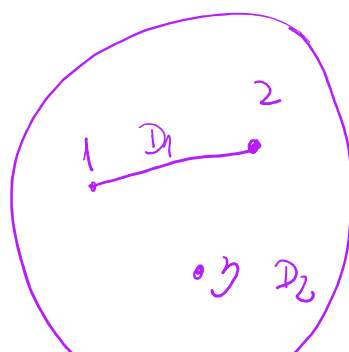
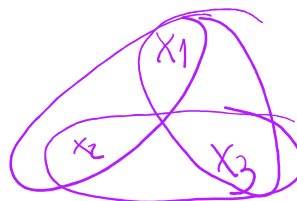
$$D = \{D_1, D_2, D_3\}$$

$$D_1 = \{x_1, x_2, x_3\}$$

$$D_2 = \{x_3, x_4, x_5\}$$

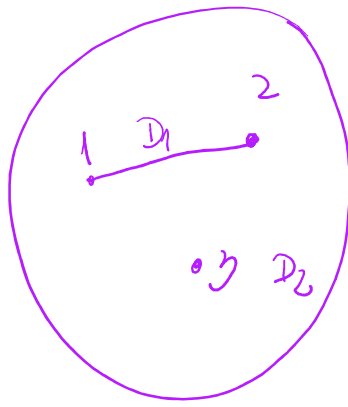
$$D_3 = \{x_4, x_5\}$$

2-reguláris hipergráf:



Szomszédssági mátrix:

$$\begin{matrix} & \begin{matrix} 1 & 2 & 3 \end{matrix} \\ \begin{matrix} 1 \\ 2 \\ 3 \end{matrix} & \begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix} \end{matrix}$$



step 10

$$\begin{matrix} & 1 & 2 & 3 \\ \begin{matrix} 1 \\ 2 \\ 3 \end{matrix} & \begin{pmatrix} 0 & 1 & \\ 1 & 0 & \\ & & 0 \end{pmatrix} \end{matrix}$$