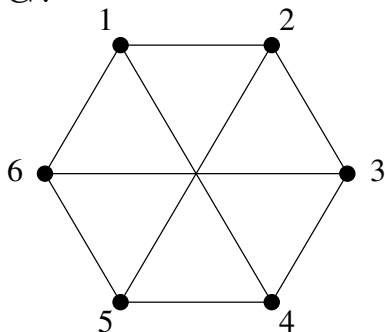


Počet koster grafu

G :



Sestavíme Laplaceovu matici

$$L_G = \begin{pmatrix} 3 & -1 & 0 & -1 & 0 & -1 \\ -1 & 3 & -1 & 0 & -1 & 0 \\ 0 & -1 & 3 & -1 & 0 & -1 \\ -1 & 0 & -1 & 3 & -1 & 0 \\ 0 & -1 & 0 & -1 & 3 & -1 \\ -1 & 0 & -1 & 0 & -1 & 3 \end{pmatrix}$$

Počet koster grafu G udává determinant minoru $L_G^{i,i}$ (pro libovolné i).

$$\kappa(G) = |L_G^{6,6}| = \begin{vmatrix} 3 & -1 & 0 & -1 & 0 \\ -1 & 3 & -1 & 0 & -1 \\ 0 & -1 & 3 & -1 & 0 \\ -1 & 0 & -1 & 3 & -1 \\ 0 & -1 & 0 & -1 & 3 \end{vmatrix} = 81$$

