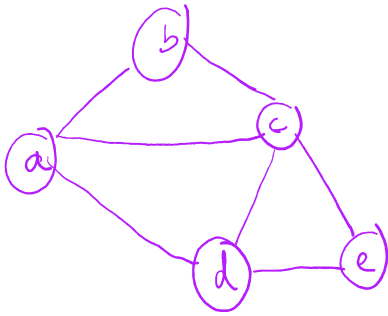


G:



$$\chi(G) = 3$$

$$\begin{aligned} a: & \{1\} \\ b: & \{1, 2\} \\ c: & \{1, 2, 3\} \\ d: & \{1, 2, 3, 4\} \\ e: & \{1, 2, 3, 4, 5\} \end{aligned}$$

Gráfok színezése

Mikor nem ad jó színezést ez a szekvenciális algoritmus?

Egy példa:

G

15 / 59

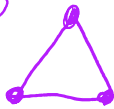
Gaskó Noémi

Gráfalgoritmusok

2023. április 3.

$$\begin{aligned} v_1: & \{1\} \\ v_2: & \{1, 2\} \\ v_3: & \{1, 2, 3\} \\ v_4: & \{1, 2, 3, 4\} \\ v_5: & \{1, 2, 3, 4, 5\} \\ v_6: & \{1, 2, 3, 4, 5, 6\} \end{aligned}$$

Kromatikus polinóm

 $K_3$ 

$$P(t) = t(t-1)(t-2)$$

$$0 \quad P(0) = 0$$

$$1 \quad P(1) = 0$$

$$2 \quad P(2) = 0$$

$$3 \quad P(3) = 3 \cdot 2 \cdot 1 = 6$$

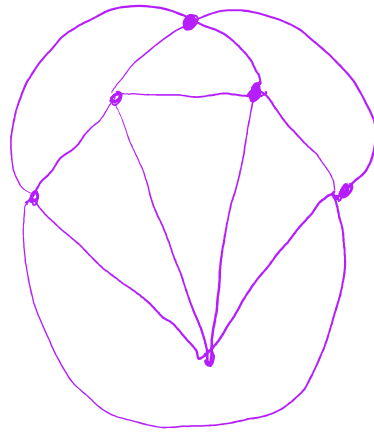
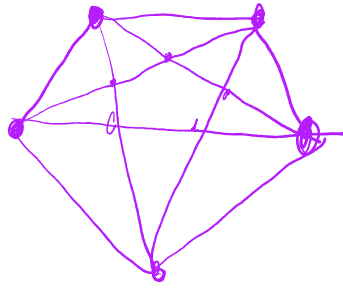
$$10 \quad P(10) = 10 \cdot 9 \cdot 8 = 720$$

Scheubergzuchtórák:



$$c(K_5) = 1$$

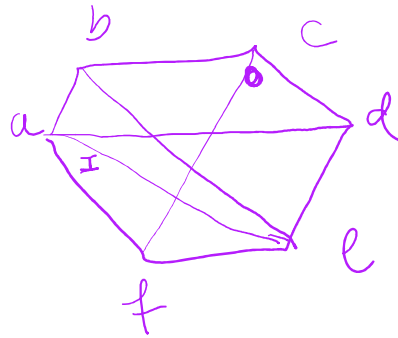
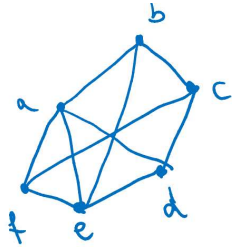
Stichwortzusammenhang:



$$c(K_5) = 1$$

$$c(K_{3,3}) = 1$$

Manudis eliminierung:



$$\left. \begin{array}{l} ae = -I \\ be = 0 \\ cf = 0 \\ ad = I \end{array} \right\} 0$$