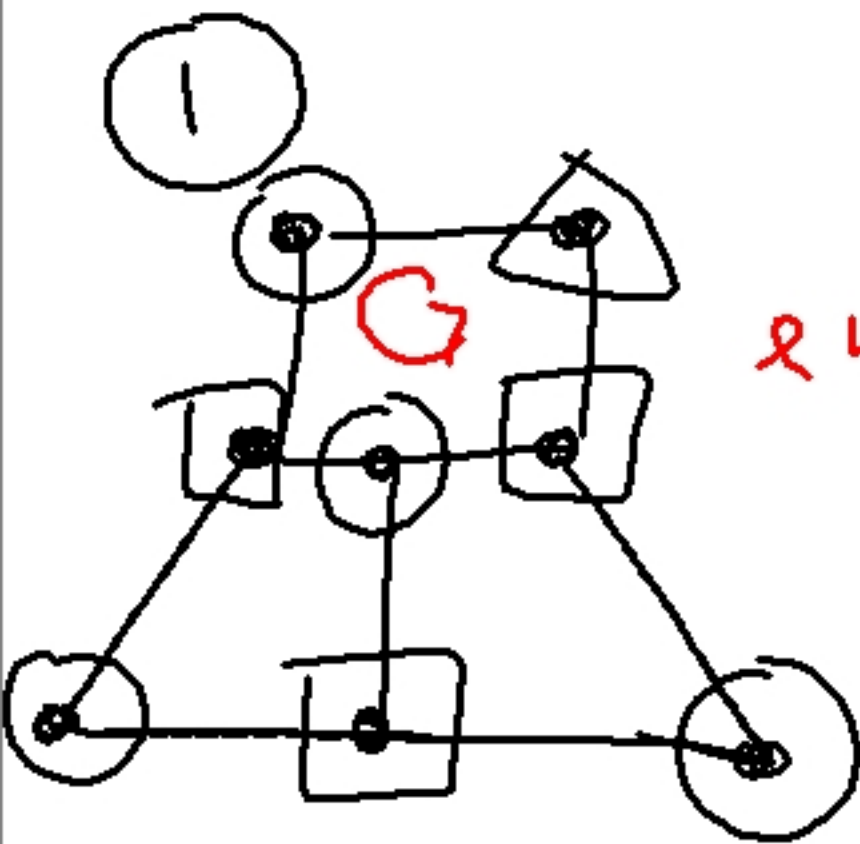




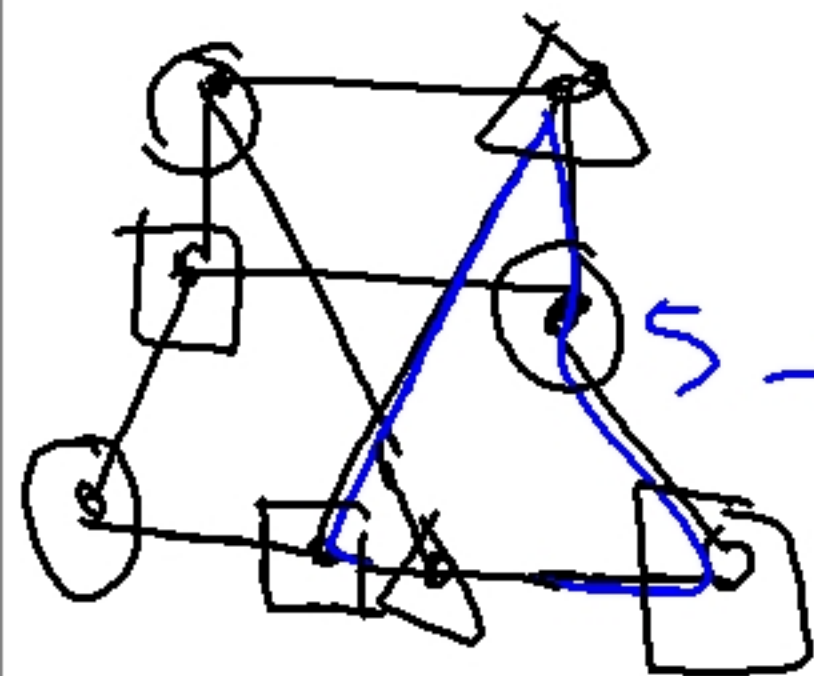
en 5-cykel



inte bipartit

$$2 < \chi \leq 3$$

SVAR: 3



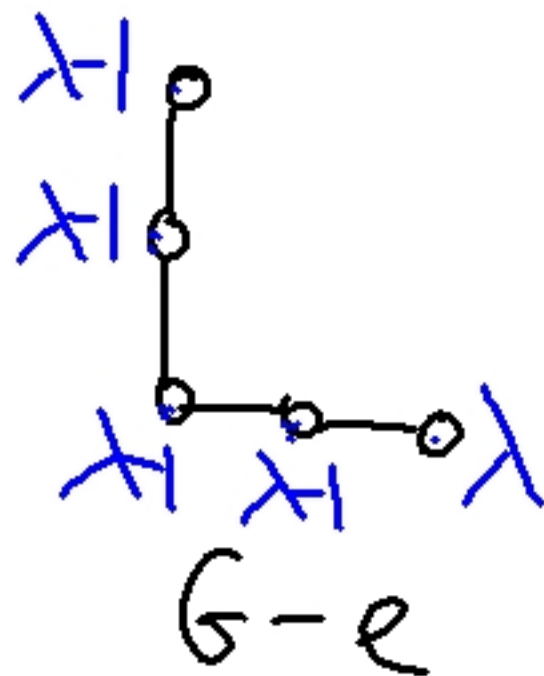
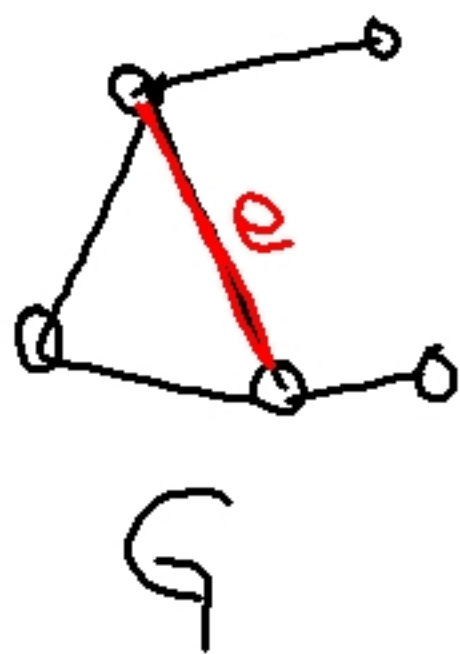
5-cykel $\Rightarrow$ ej bipartit

$$\chi > 2$$

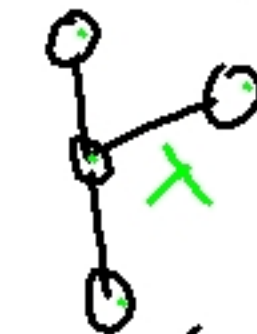
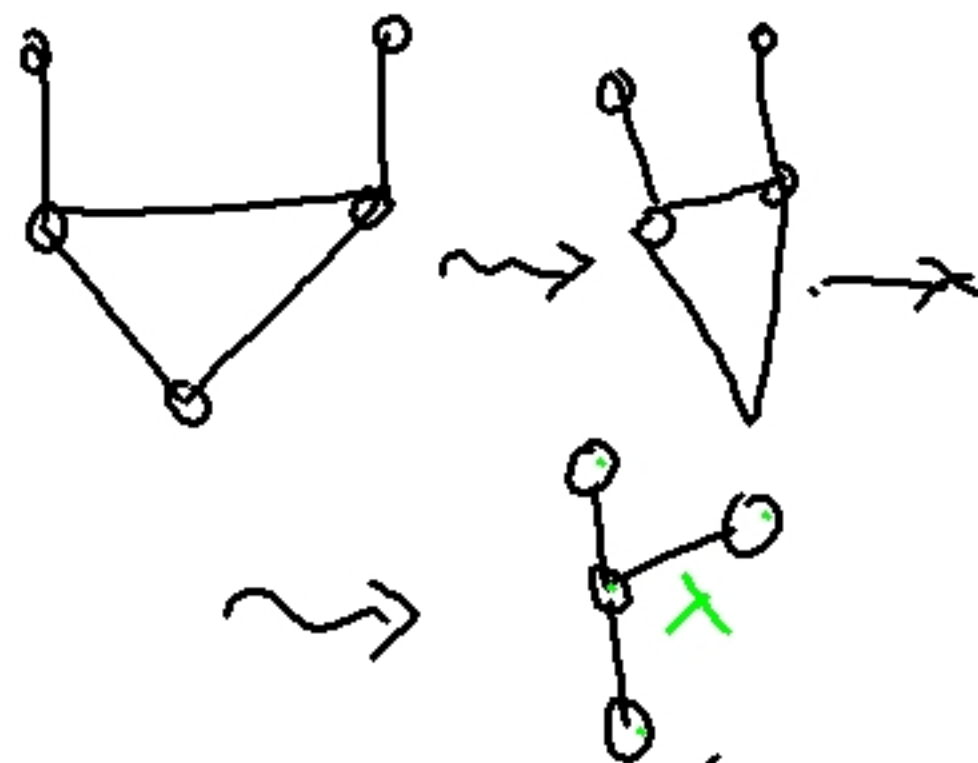
SVAR: 3

② Kromatiska polynomet

$$P_{G-e} = P_G + P_{G/e}$$

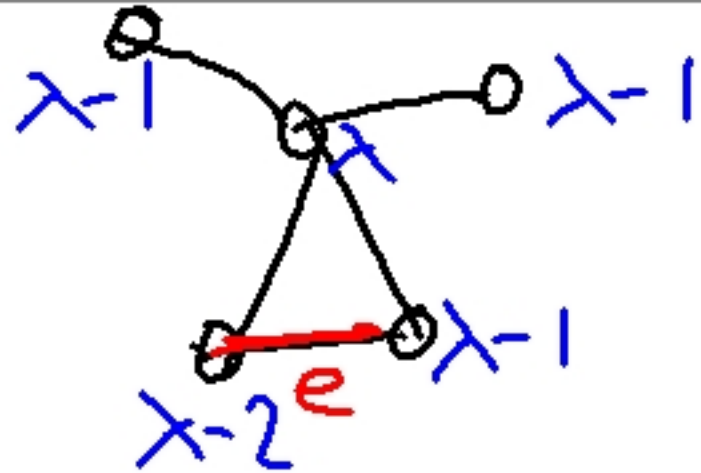


$$\lambda(\lambda-1)^4$$

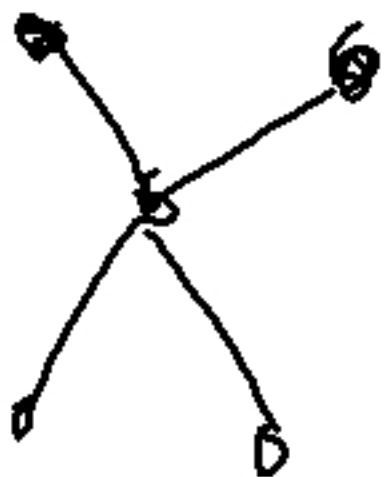


$$\lambda(\lambda-1)^3$$

$$P_G = P_{G-e} - P_{G/e} = \lambda(\lambda-1)^4 - \lambda(\lambda-1)^3(\lambda-2)$$

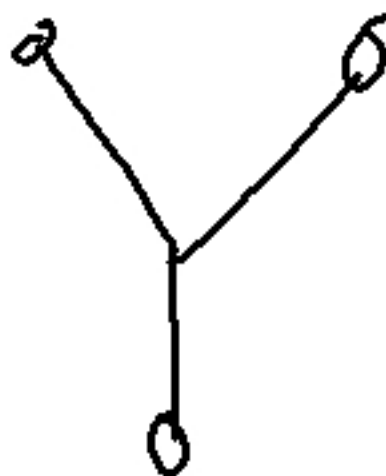


$G - e$



$$\lambda(\lambda-1)^4$$

G/e



$$\lambda(\lambda-1)^3$$

③ Blå:

alla hörn har jämn valens $\Rightarrow$

$\Rightarrow$ en Eulersk cykel finns

Grön

exakt 2 hörn har udda valens,

en Eulersk stig finns med
dess som start och slut-
punkt.